CONTRACTING NEWS

Of Special Interest to Engineers, Contractors, Builders and Manufacturers of Engineering and Building Supplies

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Proposals

For Proposals Advertised See Pages 59 to 66 Inclusive

WATER-WORKS

Bids Close.		See Eng. News-Record.
Apr. 30.	Virginia, Minn.	Apr. 26
Apr. 30.	Evanston, Ill.	Apr. 19
May 1.	Mendham, N. J.	Apr. 5
May 1.	Adel, Ia.	Apr. 26
May 2.	Milwaukee, Wis. Adv. Apr. 12.	Apr. 19
May 3.	Lowellville, O.	Apr 26
May 3.	Newark, N. J.	Apr. 26
May 5.	Martins Ferry, O.	Apr. 26
May 7.	Bloomfield, N. J. Adv. Apr. 26.	Apr. 26
May 7.	Plainfield, N. J. Adv. Apr. 26.	Apr. 26
May 7.	Reedsburg, Wis.	Apr. 26
May 9.	Cortland, N. Y. Adv. Apr. 26.	Apr. 26
May 10.	Tennille, Ga. Adv. Apr. 19 and 26.	Apr. 26

SEWERS

Apr. 27.	Valpariso, Ind.	Apr 26
Apr. 28.	Martins Ferry, O.	Apr. 26
May 1.	Lancaster, O.	Apr. 26
May 1.	Oswego, N. Y.	Apr. 26
May 1.	Adel, Ia.	Apr 26
May 1.	Kalama, Wash.	Apr. 26
May 1.	Rockford, Ill.	Apr. 26
May 1.	Toledo, O.	Apr. 26
May 3.	Clear Lake, S. D.	Apr. 26
May 3.	Ventura, Cal.	Apr. 26
May 3.	Clear Lake, S. D.	Apr. 26
May 4.	Centerburg, O. Adv. Apr. 12 and 19.	Apr. 19
May 7.	White Plains, N. Y.	Apr. 26
May 7.	Huron, S. D.	Apr. 26
May 7.	West Lake, O.	Apr. 26
May 7.	Clifton, Ariz.	Apr. 26
May 7.	Everett, Wash.	Apr. 26
May 10.	Tennille, Ga.	Apr. 26
May 14.	Lewisville, O.	Apr. 26
May 25.	Lakewood, O. Adv. Apr. 19.	Apr. 19

STRUCTURAL STEEL WORK

May 1.	Wichita, Tex.	Apr. 26
May 1.	Aitkin, Minn.	Apr. 26
May 2	Red Bluff, Cal.	Apr. 26
May 7.	Rio Vista, Cal.	Apr. 26
May 7.	Norristown, Pa. Adv. Apr. 26.	Apr. 26
May 7.	Indiana	Apr. 26
May 8.	Yazoo City, Miss.	Apr. 26
May 7.	New York, N. Y.	Apr. 19
May 10.	Huntington, W. Va.	Apr. 19
May 10.	Wahpeton, N. D.	Apr. 19
May 10.	Port Angeles, Wash.	Apr. 26
May 15.	Eureka, Cal.	Apr. 26

REINFORCED CONCRETE

May 1.	Downington, Pa.	Apr. 12
May 3.	Kingwood, W. Va.	Apr. 19
May 5.	Bethany, W. Va.	Apr. 19
May 7.	Merced, Cal.	Apr. 19
May 7.	Logan, W. Va.	Apr. 19
May 7	Muscatine, Ia.	Apr. 26
May 7.	Sharon Springs, Kan.	Apr 26
May 7.	Meridian, Mass.	Apr. 26
May 7.	Bradentown, Fla.	Apr. 26
May 8.	Visalia, Cal.	Apr. 19
May 12.	Richmond, Ind. Adv. Apr. 19 and 26.	Apr. 26
May 15.	Hazard, Ky.	Apr. 12

STREETS AND ROADS

Apr. 30.	Grove Hill, Ala.	Apr. 5
Apr. 30.	Montesano, Wash.	Apr. 19
Apr. 30.	Greenville, Tenn.	Apr. 19
Apr. 30.	Knoxville, Tenn.	Apr. 19
Apr. 30.	Islip, N. Y.	Apr. 26
Apr. 30.	Everett, Wash.	Apr. 26
May 1.	Baltimore, Md. Adv. Apr. 19.	Apr. 19
May 1.	Albany, N. Y. Adv. Apr. 12 to 26.	Apr. 19
May 1.	Lewisburg, Va. Adv. Apr. 19 and 26.	Apr. 19
May 1.	Uniontown, Pa.	Apr. 26
May 1.	Trenton, N. J	Apr 26
May 1.	Lake Charles, La. Adv. Apr. 26.	Apr. 26
May 1.	Bristol, Conn. Adv. Apr. 26.	Apr. 26
May 1.	Red Lake Falls, Minn.	Apr. 26
May 1.	Bessemer, Mich.	Apr. 26
May 1.	Toledo, O.	Apr. 26
May 1.	Convent, La.	Apr. 26
May 1.	Darien, Conn. Adv. Apr. 26.	Apr. 26
May 1.	Dunkirk, N. Y. Adv. Apr. 26.	Apr. 26
May 1.	Yuma, Ariz. Adv. Apr. 26.	Apr. 26
May 2.	Lancaster, O.	Apr. 19
May 3.	Barnesville, Ga. Adv. Apr. 12 and 19.	Apr. 19
May 2.	Providence, R. I. Adv. Apr. 26.	Apr. 26
May 2.	Brooklyn, N. Y.	Apr. 26
May 5.	Oakland, Md.	Apr. 26
May 3.	Santa Barbara, Cal.	Apr. 26
May 3.	Dayton, O.	Apr. 26
May 3.	Columbus, Miss.	Apr. 26
May 4.	Beckley, W. Va. Adv. Apr. 19.	Apr. 19
May 5.	Coquille, Ore.	Apr. 26
May 7.	Fayetteville, W. Va. Adv. Apr. 12.	Apr. 19
May 7.	Mountain City, Tenn.	Apr. 19
May 7.	Indiana, Ind.	Apr. 19
May 7.	Bakersfield, Cal.	Apr 26
May 7.	Morgantown, W. Va.	Apr. 26
May 7.	Spearfish, S. D.	Apr. 26
May 7.	Brookhaven, Miss.	Apr. 26
May 7.	Holbrook, Ore.	Apr. 26
May 7.	Indiana	Apr. 26
May 7.	Northampton Heights, Pa. Adv. Apr. 19 and 26.	Apr. 26
May 8.	Vincennes, Ind. Adv. Apr. 19 and 26.	Apr. 19
May 8.	Wenatchie, Wash.	Apr. 19
May 8.	Bloomfield, Ind.	Apr. 19
May 8.	Roxboro, N. C.	Apr. 19
May 8.	Pickens, S. C.	Apr. 19
May 8.	Port Orchard, Wash.	Apr. 26
May 8.	Shelton, Wash.	Apr. 26
May 8.	Bound Brook, N. J.	Apr. 26
May 8.	Indiana	Apr. 26
May 9.	Indiana	Apr. 26
May 9.	Albion, Mich. Adv. Apr. 26.	Apr. 26
May 10.	Texarkana, Ark. Adv. Apr. 26.	Apr. 26
May 10.	Indiana	Apr. 26
May 10.	Augusta, Ga. Adv. Apr. 19 and 26.	Apr. 26
May 12.	Indiana	Apr. 26
May 14.	Ilean, N. Y. Adv. Apr. 26.	Apr. 26
May 14.	Indiana	Apr. 26
May 14.	Oil City, Pa. Adv. Apr. 19 and 26.	Apr. 19
May 14.	Eutaw, Ala. Adv. Apr. 26.	Apr. 26
May 14.	Bangor, Me.	Apr. 26
May 14.	Watervliet, N. Y. Adv. Apr. 26.	Apr. 26
May 22.	Newark, O.	Apr. 26
May 30.	Lenoir, N. C. Adv. Apr. 26.	Apr. 26

RAILWAYS

May 2.	Mandan, N. D. Adv. Apr. 12 and 19.	Apr. 19

EXCAVATION AND DREDGING

Apr. 39.	Ivanhoe, Minn.	Apr. 26
Apr. 30.	Danville, Ill.	Apr. 26
May 1.	Quincy, Ill. Adv. Apr. 5.	Apr. 5
May 15.	Trenton, N. J. Adv. Apr. 19 and 26.	Apr. 19
May 16.	Vale, Ore.	Apr. 26
May 31.	Schuyler, Neb.	Apr. 26

BUILDINGS

Apr. 28.	Stratford, Conn.	Apr. 19
Apr. 30.	Toledo, O.	Apr. 19
Apr. 30.	Louisville, Ky.	Apr. 19
May 1.	Hamilton, Ont.	Apr 26
May 1.	Syracuse, N. Y.	Apr. 26
May 1.	Miami, Fla.	Apr. 26
May 1.	Rochester, N. Y. Adv. Apr. 19 and 26.	Apr. 26
May 2.	Jamestown, N. Y.	Apr. 26
May 3.	Ducktown, Tenn.	Apr. 26
May 10.	Kingman, Kan.	Apr. 26
May 11.	Galion, O.	Apr. 26
May 14	Asbury Park, N. J.	Apr. 26
May 15.	Fulton, Mo.	Apr. 12
July 15.	Kansas City, Mo.	Apr. 19
May 26.	Columbus, O. C.	Apr. 26
May 30.	Urbana, Ill. Adv. Apr. 26.	Apr. 26

FEDERAL GOVERNMENT

Apr. 28.	New York, N. Y. Adv. Apr. 19 and 26.	Apr. 26
Apr. 30.	Wheeling, W. Va. Adv. Apr. 5 to 26.	Apr. 5
Apr. 30.	Dallas, Tex. Adv. Apr. 5 to 26.	Apr. 5
Apr. 30.	Washington, D. C. Adv. Apr. 19 and 26.	Apr. 19
Apr. 30.	St. Louis, Mo.	Apr. 19
May 1.	Sault Ste. Marie, Mich. Adv. Apr. 5 to 26.	Apr. 5
May 1.	Powell, Wyo. Adv. Apr. 5.	Apr. 5
May 1.	Washington, D. C. Adv. Apr. 19.	Apr. 26
May 2.	Narragansett Pier, R. I. Adv. Apr. 12 and 19.	Apr. 12
May 3.	Port Huron, Mich. Adv. Apr. 5 to 26.	Apr. 5
May 3.	New York, N. Y. Adv. Apr. 12 to 26.	Apr. 12
May 3.	Washington, D. C	Apr. 26
May 4.	Chattanooga, Tenn. Adv. Apr. 5.	Apr. 5
May 4.	New York, N. Y. Adv. Apr. 5 to 26.	Apr. 5
May 4.	Philadelphia, Pa.	
May 4.	Philadelphia, Pa.	Apr. 26
May 4.	Baltimore, Md. Adv. Apr. 19 and 26.	Apr. 26
May 7.	Beaver Dam, Wis.	Apr. 5
May 7.	Pearl Harbor, Hawaii.	Apr. 5
May 7.	Ft. Caswell, N. C. Adv. Apr. 12 to 26.	Apr. 19
May 7.	Ft. Mifflin, Pa.	Apr. 19
May 7.	New Orleans, La.	Apr. 19
May 7.	Cape Henry, Va. Adv. Apr. 19 and 26.	Apr. 26
May 7.	Pensacola, Fla.	Apr. 26
May 7.	Indian Head, Md.	Apr. 26
May 7.	Duluth, Minn. Adv. Apr. 26.	Apr. 26
May 8.	New York, N. Y. Adv. Apr. 26.	Apr. 26
May 8.	Media, Pa.	Apr. 12
May 9.	Kansas City, Mo. Adv. Apr. 19 and 26.	Apr. 19
May 9.	San Pedro, Cal.	Apr. 26
May 9.	Portsmouth, N. H. Adv. Apr. 26.	Apr. 26
May 10.	Detroit, Mich. Adv. Apr. 19 and 26.	Apr. 19
May 10.	Nogales, Ariz.	Apr. 26
May 11.	Boise, Idaho	Apr. 5
May 11.	Cleveland, O. Adv. Apr. 12 to 26.	Apr. 19
May 12.	Ft. Benj. Harrison, Ind. Adv. Apr. 19 and 26.	Apr. 26
May 14.	Baltimore, Md. Adv. Apr. 12 to 26.	Apr. 26
May 14.	Key West, Fla. Adv. Apr. 26.	Apr. 26
May 14.	Vallejo, Cal.	Apr. 26
May 14.	New Orleans, La.	Apr. 26
May 15.	Bolinas, Cal. Adv. Apr. 5.	Apr. 5
May 16.	Fitzgerald, Ga. Adv. Apr. 12.	Apr. 19
May 16.	Athens, Tenn. Adv. Apr. 12.	Apr. 19
May 17.	Sault Ste. Marie, Mich. Adv. Apr. 19 and 26.	Apr. 26
May 17.	Cedar Falls, Ia.	Apr. 12
May 18.	Santa Fe, N. M.	Apr. 26
May 18.	El Paso, Tex.	Apr. 19
May 19.	Washington, D. C. Adv. Apr. 26.	Apr. 26
May 21.	Vallejo, Cal.	Apr. 26
May 21.	Cleveland, O. Adv. Apr. 26.	Apr. 26
May 21.	Wilmington, Del. Adv. Apr. 26.	Apr. 26
May 23.	Garfield, N. M. Adv. Apr. 26.	Apr. 26
May 23.	Montgomery, Ala. Adv. Apr. 26.	Apr. 26
May 24.	**Indiana, Pa.**	**Apr. 26**
May 25.	Washington, C. H. O.	Apr. 26
May 28.	Jasper, Ala. Adv. Apr. 19 and 26.	Apr. 26
May 29.	Southbridge, Mass. Adv. Apr. 19 and 26.	Apr. 26
May 29.	Berwick, Pa. Adv. Apr. 26.	Apr. 26
May 30.	Ft. Michie, N. Y. Adv. Apr. 26.	Apr. 26

MISCELLANEOUS

Apr. 30.	Garbage Furnace—Braddock, Pa. Adv. Apr. 12 and 19.	Apr. 19
May 1.	Foundations. Philadelphia, Pa.	Apr. 26
May 2.	Ties and Timber—New York City	Apr. 19
May 4.	Revetment Wall—Cincinnati, O.	Apr. 26
May 7.	Pine Bluff, Ark.	Apr. 5
May 8.	Incinerator. New Brunswick, N. J.	Apr. 26
May 9.	Ballast. New York, N. Y.	Apr. 26
May 17.	Turbine & Generator. Rockport, Ill.	Apr. 26
June 1.	Wharf—Richmond Va.	Apr. 19

WATER-WORKS

Proposed Work

R. I., Providence—Bd. Contract and Supply rejected all bids for 8,000,000 gal. capacity pump to be installed as auxiliary to pressed unit at Hope Pumping Station.

N. Y., Ft. Ann—Bd. Trus. rejected all bids for water-works. Cost, $25,000.

N. J., Pitman—Borough passed ordinance to purchase system of Pitman Water Co. for $48,000; extensive improvements planned.

Pa., Hubbard—City plans to issue $10,000 bonds for improving water-works.

Pa., Roaring Springs—City plans improving water-works.

Fla., Brooksville—City plans to construct water-works. Cost, $20,000. Knight & McElroy, Tampa, engrs.

Ala., Talladega—City sold $145,000 bonds for water-works.

Miss., Natchez—Bd. Aldermen approved proposition to issue $15,000 water-works and sewer bonds. F. Winchester, supt.

Tenn., Lenoir City—City to issue $25,000 bonds for water-works. J. W. Buffell, supt.

Tenn., Sparta—J. E. Thompson, Nashville, purchased Sparta water-works and plans improvements to include 6- and 8-in. mains, extending distributing system, increasing capacity of standpipe, etc.

O., Lancaster—City plans to extend water mains to number of sections of city. Cost, $20,000. J. King, supt.

O., Wauseon—Layne Bowler Co. plans to install wells to furnish city with better water supply. Cost, $15,000. J. S. Clark, supt.

Ill., Gross Point—City will soon let contract for laying $39,910 ft. 4- to 10-in. water pipe. Windes & Marsh, Winnetka, engrs.

Wis., Menominee—Falls—See "Structural Steel."

Wis., Potosi—City voted $10,000 bonds for water-works system.

Ia., Massena—City voted $17,000 bonds to lay 24 blocks water mains and install 50,000-gal. tank, 78-ft. high. C. M. McBride, clk.

Minn., Thief River Falls—S. J. Overland, city clk., will soon let contract for concrete reservoir, 2 pumping stations, pumps, motors, etc. Cost, $13,600.

Kan., Baldwin—City to issue $20,000 bonds for water-works and electric-light plant. H. Pattersom, supt.

Kan., Baxter—City will soon let contract for water plant. Cost, $80,000. A. C. Moore, Joplin, engr.

Kan., Chanute—City plans extending filter plant at water-works, adding 500,000 gal. units and purchasing elevated steel tank. Plans also being prepared for sewer work. C. Pratt, city engr.

Kan., Chanute—City rejected all bids for water-works system. Cost, $100,000. Black & Veatch, 507 Interstate Bldg., Kansas City, Mo., engr.

Kan., Plainville—Council passed ordinance to issue $10,000 bonds for water-works.

Neb., Unadilla—City plans to install water system. About $10,500. Grant & Fulton, Lincoln, engrs.

N. D., Berthold—City plans water-works, including 100,000-gal. tank. About $12,000. T. R. Arnold, Great Falls, engr.

Okla., Gates—City voted $15,000 bonds to build water-works.

Okla., Hugo—City voted $10,000 bonds for installing settling basin.

Okla., Tahlequah—City rejected all bids for water-works improvements. Cost, $30,000. E. B. Murray, 920 Walnut St., Kansas City, Mo. engr.

Okla., Wapanucka—City plans improvements to water-works and light plant.

Wash., Camas—City will soon hold election to vote on $100,000 bonds for water-works.

Ore., Huntington—See "Sewers."

Cal., Modesto—City will soon let contract to build the unit on water-works.

Cal., Oroville—Pacific Gas and Electric Co., 445 Sutter St., San Francisco, plans extensions and improvements to Thermalito water distributing system; about $50,000.

Cal., San Francisco—Sierre & San Francisco Power Co. prepared plans for reservoir along Stanislaus River. About $4,000,000.

Que., South Montreal—City plans installing water-works and sewerage system consisting of steel tank, 100,000 gal. capacity, centrifugal pumps, 800 gal. per min., 350,000 gal. filter plant, 17 streets of vitr. tile sewers, etc.

Que., Thetford Mines—Council passed law for constructing dam for reservoir; cost, $50,000. A. Gagnon, Notre Dame St., secy.-treas.

Ont., Chatham—Ontario Ry. & Municipal Bd. approved by-law authorizing $16,600 bonds for water-works extension. J. W. Adams, city engr.

Ont., Sudbury—City will vote Apr. 30 on $46,000 bonds for stand pipe and auxiliary main, also $2,500 for alterations to lake sewer pumping station. W. J. Ross, town clk.

Bids Desired

N. Y., Cortland—Until May 9 by Bd. Water Comrs., for pumping station, etc., advertised in this issue.

N. J., Bloomfield—Until May 7 by Town for water pipe: 20 net tons 8-in. c.-i. pipe, 17 net tons 6-in. c.-i. pipe and 2 net tons specials for 8-in. and 6-in. pipe. E. Bacchiln, engr.

N. J., Newark—(Official)—Until May 3 by Bd. Street and Water Comrs. for raising dam of Oak Ridge Reservoir; advertised in this issue.

Ga., Tennville—See "Sewers."

N. C., Elm City—See "Sewers."

O., Lowellville—Until May 3 by J. H. Lash, village clk., for furnishing material and constructing water connections from main water line in Youngstown and Lowellville Rd., Wood and other streets.

O., Martins Ferry—Until May 5 by city for furnishing material and constructing well system, suction pipe line, pumps, etc., for water-works. Burgess & Long, Columbus, engrs. T. McPherson, city clk.

Ia., Adel—Until May 1 by City for 4650-ft. 4-in. c.i. pipe, 5 hydrants and 5 gate valves. B. G. Finley, clk.

Neb., Harrison—Until May 9 by Town Clk. for pumping plant.

N. D., La Moure—Until May 7 for water-works system. B. W. Loppnow, city aud.

Tex., Temple—See "Reinforced Concrete."

Prices and Contracts Awarded

(★Indicates award of contract)

★**N. Y., New York**—C. Strauss, supt. Bd. Water Supply, Municipal Bldg., let contract erecting fences around Hill View Reservoir, Yonkers, and Silver Lake reservoir Richmond Boro. to Lupfer & Remich, 594 Ellicott Sq. Bldg., Buffalo, $57,310.

Pa., Ambridge—See "Reinforced Concrete."

★**Va., Norfolk**—Bd. Control let contract laying water mains and hydrants on Bank St. to Lawson Constr. Co., Essex Bldg.

★**O., Greenwich**—City contract improvements to water-works to Alger & Krauss, 416 Guardian Bldg., Cleveland, $17,789. Noted Apr. 19.

★**O., New London**—Bd. Pub. Affairs let contract 4½ mi. 8 in. wood pipe to Michigan Pipe Co., Bay City, at 70c. f.o.b. New London; laying same to Natl. Co., South Bend, 29c. per ft.; laying 4½ mi. distributing system 4-, 6- and 8-in. c.i. pipe to H. Martin, 155 Richardson Ave., Columbus, at 38, 45 and 55c. per ft., also for storage well, foundation for tower and tank.

★**O., Wauseon**—Village Council let contract, addition to water supply system to Lan & Bowler Co., Chelsea Ave., Memphis, Tenn.

★**Wis., Madison**—City let contract 1-story, 110 x 134 ft. pumping plant to Morgan & Morgan, 108 Breeze Terrace, $65,000.

★**Neb., Scottsbluff**—City let contract waterworks extension to J. S. Schwartz, Colorado Springs, Colo., $26,250. Noted Apr. 12.

★**N. D., Cooperstown**—City let contract for water and sewerage system, to Schruth & Jackson, Winnipeg, Mon., $74,881.

★**Mont., Wolf Point**—City let contract waterworks system to Two Miracle Co., Great Falls.

Tex., Electra—See "Sewers."

★**Okla., Kaw City**—City let contract waterworks and electric-light plant to Cudgel & McVay, Stillwater, about $25,000.

★**Ore., Astoria**—(Official)—Astoria Water Comn. let contract distributing system and lining tunnel to E. Sandeberg, 74 East 24 St., N., Portland, $55,996.

★**Que., Cap De La Madeline**—Municipal Council let contract aqueduct, pumping station and reservoir to A. Aubin, St. Jerome. About $10,000.

★**Que., St. Hyacinthe**—(Official)—City let contract filter plant to Roberts Filter Mfg. Co., Darby, Pa., $121,000.

★**Ont., Sandwich**—Town let contract installing water mains to Merlo, Merlo & Ray, 296 Winderm Rd., Walkerville, $29,457.

SEWERS

Proposed Work

N. H., Derry—Town plans to install sewerage system. Cost $25,000. Dudley & Sawyer, 936 Elm St., Manchester, engrs.

N. J., Newark—Council passed ordinance authorizing $1,200,000 bond issue for Passaic Valley sewer work. A. Archibald, city clk.

Pa., Ocontz—Cheltenham Twp. Comrs. will hold election May 1 to vote on $625,000 bond for sewerage system and disposal plant.

Pa., Phila.—City plans to spend $130,000 for sewer work. C. Albright, city engr.

Pa., Wilkes-Barre—See "Streets and Roads."

Va., Abingdon—City plans installing sewerage system and sewage-disposal plant. G. F. Grant, mayor.

W. Va., Martinsburg—City plans to extend and improve storm sewers and water-works. Cost $25,000 and $5000, respectively.

Miss., Natchez—See "Water-Works."

Ky., Paris—City voted $10,000 bonds for sewer system. J. W. Hayden, city clk.

O., Canton—City sold $77,000 bonds to install central southwest storm sewer and $17,000 bonds to pave and improve Liberty Ave., S. E. W. E. Sarver, city engr.

O., Leetonia—City rejected all bids for sewage disposal plant. Cost, $45,000.

O., Portsmouth—City plans to issue $10,000 bonds to extend and improve sewerage system. P. G. Harper, city engr.

Ind., Indianapolis—(Official)—City will let contract about May 10, for West 10th St. sewer, 2 ring brick or segment block, 2 ft. 6 in. to 6 ft. 6 in. diam., length 8190 ft.

Ind., Indianapolis—Indianapolis Bd. Sanitary Sewer Comrs. plans to install sewage-disposal plant. About $2,000,000. Jay A. Craven, asst supt.

Mich., Escanaba—City voted $30,000 bonds for sewer from foot of Ludington St., to sewage disposal plant.

Ill., Evanston—See "Excavation and Dredging."

Ill., Grosse Point—City will soon let contract about 37,911 ft. 8- to 16-in. sewers and 113 manholes.

Wis., Superior—City estimates cost constructing main sewer in alley northeast of Itasca St. at $11,500; complete system to East 6th St., at $23,411.

Ia., Grand Mounds—City plans to install sewage disposal plant and about 3 mi. of sewers. Iowa Engr. Co., Chase Bldg., Clinton, engrs.

Ia., West Burlington—City plans to install storm sewers. Stevens & Stiles, 708 Ridge Arcade, Kansas City, Mo., engrs.

Minn., Bemer—City to vote $14,500 bonds for sewerage system.

Kan., Chanute—See "Water-Works."

Mo., Carl Junction—City will let contract in June for sewer work to cost $15,000.

Ark., Harrison—City having plans prepared for sanitary sewer system. A. C. Moore, Joplin, engr.

Tex., Dallas—Bd. City Comrs. plans issuing $300,000 bonds for sewers.

Tex., McAllen—City plans issuing $46,000 bonds for sewer and street improvements.

Colo., Trinidad—City voted in favor of issuing $30,000 bonds for enlarging sewerage system.

Utah, Ogden—City election soon to vote on $300,000 bonds for sewers and $100,000 for paving. J. M. Tracy, city engr.

Ore., Huntington—City voted $20,000 bonds for trunk-line sewer and $5000 for extension to waterworks. Stanley & Bailey, Baker, engrs.

Ore., Seaside—City plans to spend $25,000 rebuilding sewerage and drainage system. L. C. Rogers, city engr.

Cal., Modesto—City voted following bond issues: $40,000 for streets, $30,000 sanitary sewers, $15,000 storm sewers and $5000 water-works extension.

N. S., Halifax—City plans to install sewers. Cost, $37,000. H. W. Johnston, engr.

Que., South Montreal—See "Water-Works."

B. C., Vancouver—City and Joint Sewer Bd. approved plans for proposed Beach Ave. sewer. Cost, $30,000.

Bids Desired

N. Y., Fairport—Until May 4 by Village Bd. for about 8000 ft. storm drains, etc.; advertised in this issue.

N. Y., New York—Until Apr. 27, by M. M. Marks, boro. pres., for alterations to receiving basins in 1st and 2nd Ave., Macdougal, Catherine and numerous other streets, together with inlets, etc.

N. Y., Olean—See "Streets and Roads."

N. J., Plainfield—Until May 7 by Common Council for sanitary sewers and appurtenances; advertised in this issue.

N. C., Elm City—Until Apr. 30 by H. T. Scott, city clk., for sewer and water extensions.

Ga., Tennille—(Official)—Until May 10 by City Clk., installing sewers and water mains, advertised in this issue.

O., Centerburg—Until May 4 by C. Smith, village clk., for sewage disposal plant, also sewers, advertised in this issue.

Sewers (Continued)

O., **Huron**—Until May 7, F. H. McQuillen, village clk., for sewer in South St. J. C. Britton, supt.

O., **Kent**—See "Streets and Roads."

O., **Lancaster**—Until May 1, by G. B. Larimer, dir. pub. ser., for sewers and branches in storm water sewer Dist. No. 12. Separate bids for sewer in first alley south of Walnut St. Also for improving with hard burned vitr. brick portions of West Wheeling St.

O., **Lewisville**—Until May 14 by E. Keylor, village clk., for installing sewers.

O., **Martins Ferry**—Until Apr. 28 by city for storm water sewers in Jefferson St. G. L. Spence, dir. pub. serv.

O., **Toledo**—Until May 1 by co. comrs. for Sewer No. 16, 14 miles 6- to 24-in. vitr. sewer pipe, 2 miles water pipe, manholes, etc. L. A. Boulay, Toledo., co. engr.

O., **West Park**—Until May 7 by F. Feuchter, village clk., for storm water and sanitary sewers in Lorain, Williams and Barthelam Aves. Lander Eng. Co., 306 American Trust Bldg., Cleveland, engr.

Ia., **Adel**—Until May 1 by City for installing sewer. B. G. Finley, clk.

Neb., **Valentine**—Until Apr. 30 by City installing sewerage system. About $26,000.

S. D., **Clear Lake**—Until May 3 by City for sewerage system and sewage treatment plant, including 22,370 ft. 8- to 18-in. pipe, manholes, flush tanks, etc. Dakota Eng. Co., Mitchell, engrs.

Prices and Contracts Awarded

(★Indicates award of contract)

★**Mass., Boston**—D.pt. Pub. Wks. let contract pipe sewers and drains in Woodward St., S. Boston, to T. J. O'Connell, 1528 Dorchester Ave., Dorchester, Linden Park and Roxbury St., Roxbury, to M. H. Loonie, 73 Gibson St., Dorchester, Waldo Ter., Brighton, to A. Cefal, 316 Belgrade Ave., Roxbury.

★Edw. F. Murphy, comr. dept. pub. wks., let contract pipe sewers and drains in West Roxbury to F. Drinkwater, 309 Washington St., in Roxbury to V. Grande, 57 Hull St.

★**Conn., New Haven**—City let contract installing sewers in various streets to Palmer & Lynch, West Haven.

★**N. Y., Binghamton**—Bd. Contract & Supply let contract 5570 ft. 8- to 24-in. pipe sewers to G. Serafini, 10 Lafayette St., $11,859.

★**N. Y., Niagara Falls**—City let contract 2150 lin.ft. 52-in., 960 ft. 48-in. and 950 ft. 42-in. concrete sewers, together with manholes, catch basins, etc., to Gibbons & Donnelly, Cleveland.

N. Y., Syracuse—City received low bids for main sewer line and dredging and improvements to Onandage Creek near South Ave., from J. Young, 297 Barnstable Blk., Syracuse, $449,960, and J. F. Leary Constr. Co., Cutler Bldg., Rochester, $590,000.

★**Pa., Johnstown**—(Official)—City let contract Sect. 2 Main Sewer to M. O. O'Herron Co., 1st and McKean St., Pittsburgh, $130,620.

★**Pa., McKeesport**—City let contract sanitary sewerage system to Bowman Bros. Co., 539 Jerome St., McKeesport, $73,736.

★**Pa., Washington**—City let contract main sanitary sewer to give outlet to sewerage system on Shannon Ave. to W. Puckett & Co.

★**O., Cincinnati**—(Official)—City let contract Mill Creek intercepting Sewer, Contract No. 2, between Harrison and Marshall Ave. to Welling & Franz, 9th and Plum St., $154,759; Contract No. 4 between Mitchell and Spring Grove Ave., to D. P. Foley, Park Ave., $168,637.

★**O., Cleveland**—City let contract installing sewers in Sandusky Ave. to Brookside Constr. Co., 3905 West 20th St., $30,880; Farrington Ave. to Gawne Constr. Co., 105th St. and Euclid Ave., $28,103.

★**O., Cuyahoga Falls**—Village let contract installing sewers to Hoag & Dall, 41 Natl. Commercial Bank, Cleveland, $120,928.

★**Ind., Gary**—Bd. of Wks. let contract sewer to M. D. Heiny, Gary, $249,223.

★**Mich., Grosse Point**—City let contracts sewage disposal plant, pumping system and complete sanitary sewer to Candler Dock & Dredge Co., 305 Moffat Bldg., Detroit, $94,667; B. Douglas Co., 303 Wilmot St., Ann Arbor, $18,990; G. R. Cocke, Detroit, $133,944.

★**Wis., Oconomowoc**—City let contract sewer in Pleasant St. to F. E. Kaminski, Watertown.

Wis., Sheboygan—Bd. Pub. Wks. received low bid for sewer work from E. Aldag, Jr., Co., $12,952. C. U. Boley, city engr.

★**Minn., Chippewa Falls**—City let contract sewers in several streets to Cast Stone Constr. Co., Eau Claire, $19,678.

★**Minn., St. Paul**—M. N. Goss, comr. pub. wks., let contract as follows: Pascal Ave., to E. T. Webster, 715 Germania Life Bldg., Asbury and Boswell Aves. to C. Johnson, Scandinavian-American Bank Bldg., St. Paul.

★**Neb., Omaha**—(Official)—City let contracts sewers to A. F. Hanson, Dist. 564, 25th St. from P. St. to Railroad Ave., $2471, Dist. No. 587, Monroe St. from 13th to 15th St., $921, Dist. 588, Ames Ave. from 45th St. to west city limits, $2726, Dist. No. 590, Iler addition and Thomason and Goos addition, $11,091; to H. J. Petersen, Dist. No. 589, Dwight and Lyman addition, $6393.

★**S. D., Wessington Springs**—City let contract sewerage system and reduction plant to Dunnegan & Briggs, Shenandoah, Ia., $32,638.

★**N. D., Cooperstown**—See "Water-Works."

★**Tex., Electra**—City let contract sewerage system and extension to water-works to M. Griffin O'Neal & Sons, 2516 McKenzie Ave., Dallas.

★**Tex., Waxahachie**—City let contract, sewage disposal plant to Griffin O'Neal & Sons, 2516 McKenzie Ave., Dallas.

★**Idaho, Nezperce**—City let contract sewerage system to Security Bridge Co., Lewiston, $28,499.

Utah., Murray—City let contract, 2nd part of sewer system to Park Bros., Salt Lake City, $27,000.

★**N. S., Halifax**—City let contract sewers to Cook Constr. Co., Ltd., 335 Queenspool St. About $70,000.

STRUCTURAL STEEL WORK

Proposed Work

Conn., Waterbury—City plans to build bridge across Naugatuck River on Main St.; cost, $100,000. R. A. Cairns, city engr.

Pa., Phila.—(Official)—W. S. Twining, Dir. Dept. City Transit, 754 Bourse Bldg., rejected bids opened Apr. 17, additional steel superstructure and appurtenant work to provide station platforms on Frankford Elevated Ry. at Huntingdon St. Will readvertise at once. Noted Apr. 12.

Ind., Columbus—County voted $14,000 bonds for additional span to bridge over White River; $12,000 for same work over Flatrock River and $3000 for county's share of flood-prevention work.

Wis., Menominee Falls—Village plans to install 50,000-gal. steel tank reservoir on 50-ft. steel tower.

Ia., Rock Rapids—(Official)—County rejected bids 88 concrete box culverts and 4—16-ft. slab bridges. New bids. W. C. Wycoff, co. engr.

Kan., Independence—See "Streets and Roads."

Tex., Wichita Falls—County to hold election to vote $20,000 bonds to build bridge.

Okla., Holdenville—Dustin and Bernard Twps., Hughes Co., election May 12 to vote on $50,000 bonds to build bridges.

Ore., Portland—P. H. Dater, city engr., estimates cost of proposed viaduct across tracks of Oregon, Washington, Railroad and Navigation Co.'s main line on East 41st St. at $15,000.

Bids Desired

Pa., Norristown—(Official)—Until May 7 by W. D. Heebner, co. contr. rebuilding floor system, placing of wood blocks and painting bridge over Schuylkill River, advertised in this issue.

Miss., Yazoo City—Until May 8 by S. S. Griffin, clk. bd. supervs., for one 756-ft. creosoted pile trestle bridge; two 20-ft. concrete arch bridges; two 30-ft. and one 10-ft. concrete slab bridges; one 42- and one 50-ft. steel span bridges; also one 200-ft. concrete or steel bridge.

Indiana—By Co. Comrs. for constructing following bridges: May 7: Vernon, stone or concrete bridge in Sand Creek Twp.; G. J. Bernhart, co. aud. Spencer, 2 steel bridges in Lafayette Twp.; S. M. Royer, co. aud.

Ill., Rockford—Until May 1 by co. supt. of highways for cross bridge and Hartman culverts on county line between Lacona Twp., Winnebago Co. and Rock Grove Twp., Stephenson Co.

Minn., Aitkin—Until May 1 by H. C. Bleecker, co. aud., for bridge No. 2470.

Tex., Wichita—Until May 1 by co. comrs. for one 2-span bridge, 200 ft. long, also two 240-ft. spans, all through Pratt trusses. About $75,000. M. M. Cooke, 502 Kemp & Kell Bldg., Wichita Falls, archt.

Okla., Chandler—Until May 8 by County, building 5 bridges. J. O. Pringley, clk.

Ariz., Clifton—Until May 7 by Bd. Supervrs. hinge steel arch bridge, 312 ft. long with 3 steel deck girder approach spans, steel bent piers and abutments.

Wash., Everett—Until May 7 by M. Weatherbee, co. aud., for bridge and pile-trestle near Startup.

Wash., Kalama—Until May 1 by B. O. Olson, co. clk., suspension bridge over Cowlitz River.

Wash., Port Angeles—Until May 10 by J. W. Warren, co. aud., building Upper Sol Due Bridge.

Wash., Seattle—Until Apr. 30, by N. M. Wardall, co. aud., for building Kenmore trestle and approaches, 1800 ft. long; cost $20,000. J. S. Hume, co. engr.

Cal., Eureka—Until May 15 by M. Kay, co. clk., for 2 bridges.

Cal., Red Bluff—Until May 2, by H. G. Kuhn, co. clk., repairing and rebuilding Red Bank bridge.

Prices and Contracts Awarded

(★Indicates award of contract)

★**Mass., Quincy**—Fore River Shipbuilding Co. let contract 30x1000-ft. steel and concrete shipways, including electrical cranes, 12,000 cu.yd. concrete, 3000 wooden piles, and about 3000 tons structural steel to Aberthaw Constr. Co., 27 School St., Boston.

★**Md., Ocean City**—County let contract bridge over Synepuxent Bay to F. P. Beasman, 7 Clay St., Baltimore.

★**Ia., Burlington**—County let contract bridge to Clinton Bridge Works, 101 South 2nd St., Clinton.

★**Ia., Elkader**—County let contract bridge to Waterloo Constr. Co., 315 Syndicate Bldg., Waterloo, about $14,100.

★**Ia., Rock Rapids**—City let contract steel pony truss, iron and concrete bridge to Des Moines Bridge & Iron Co., Tuttle St., Des Moines, $14,000.

★**Cal., Eureka**—See "Streets and Roads."

REINFORCED CONCRETE

Proposed Work

Pa., Hazleton—Duplan Silk Co. soon lets contract 5-story, 100x700-ft., rein.-con. mill. About $500,000. Lockwood, Greene & Co., 101 Park Ave., New York, engrs.

O., Akron—Akron Biltwell Tire & Rubber Co. plans rein.-con. factory. About $125,000. W. C. Owen & Co., archts. 1900 Euclid Ave., Cleveland, soon receives bids.

O., Toledo—Moreton Truck and Storage Co. is having plans prepared by E. Thal, archt., Ohio Blk., for 4-story concrete warehouse on 23 Huron St.

Ill., Highland Falls—City rejected bids building one 150-ft. and two 120-ft. rein.-con. bridges. E. A. Warren, clk.

Wis., Milwaukee—Illinois Steel Co., Bay View, plans 600-ft. concrete dock equipped with Hoover & Madock unloader, capacity 500 tons, at south end of Jones Island.

Wis., Milwaukee—Bd. School Dirs. retained Van Ryn & DeGelleke, archts., Caswell Blk., to prepare plans 3-story, 91x285-ft., rein.-con. school and boiler house, Hartford Ave. Contract will be let in June. F. M. Harbach, secy.

Neb., Clay Center—County soon lets contract concrete bridges.

Neb., Geneva—County will let contract in May 13 concrete highway bridges.

Bids Desired

Pa., Uniontown—Until May 1 by County double 32-ft. rein.-con. bridge over Rowe Run, Redstone Twp.; 30-ft. rein.-con. bridge over Meadow Run, Wharton Twp. and 32-ft. rein.-con. bridge over Galley Run between Connellsville and Upper Tyrone Twp. H. Klsinger, co. engr.

Fla., Bradentown—Until May 7 by R. H. Roesch, co. clk., for rein.-con. bridge over Manatee River between Bradentown and Palmetto.

Miss., Meridan—Until May 7 by County for concrete bridge on Marion Rd. W. R. Pistole, clk.

Ind., Richmond—(Official)—Until May 12 by co. comrs. rein.-con. bridge over Whitewater River on Main St.; advertised in this issue.

(Official)—Until May 12 by co. comrs. rein.-con. bridge over Whitewater River on South G St.; advertised in this issue.

Ia., Muscatine—Until May 7 by Bd. Supervs. for 2 rein.-con. bridges, 1 located on Muscatine-Montpelier Rd. 2 mi. east of here.

Kan., Sharon Springs—Until May 7 by County for 50-ft. rein.-con. bridge, 16-ft. roadway.

Tex., Temple—Until May 1 by Scott Eng. Co., 4114 Cedar Springs Ave., Dallas, for rein.-con. conduit about 800 ft. long, installing steam supply and return pipes for Temple Sanatarium.

Ore., Holbrook—Until May 7 by Co. Comrs. for rein.-con. viaduct No. 6, on St. Helens Rd., 240 ft. long, 20-ft. roadway.

Ore., Vale—(Official)—Until May 16 by R. E. Weant, pres., Warmsprings Irrigation Dist., for concrete dam of gravity type for retention of water of Middle Fork of Malheur River; also until May 15 for purchase of $750,000 bonds for reservoir.

Cal., Ventura—Until May 3 by Bd. Supervs. for rein.-con. bridge across tracks Southern Pacific R.R. near Hasson.

Reinforced Concrete (Continued)

Prices and Contracts Awarded

(★Indicates award of contract)

★**N. J., Passaic**—Armour & Co., Monroe St., let contract 4-story, 100 x 900-ft., rein.-con. factory to Moody Engr. Co., 115 Broadway, New York.

★**Pa., Ambridge**—City let contract concrete reservoir, 100,000 gals. capacity, piping, etc., to R. V. Baldwin, Coraopolis, $45,000.

★**Ia., Tipton**—(Official)—Bd. Supervs, let contract 44 rein.-con. box culverts and 3 I-beam bridges to S. R. Johnston, Tipton, $13,336 and A. H. Stoeker, Stanwood, $6348. Noted Apr. 5.

★**N. D., Minot**—Ely & Young let contract 2-story, 75 x 140-ft. concrete garage to W. S. Kingsley & Co., $75,000.

★**Mo., Kansas City**—Bd. Park Comrs. let contract rein.-con. retaining wall on Gilan Rd. between Grand and McGee St. to P. A. Hartung, Bryant Bldg., about $21,314.

STREETS AND ROADS

Proposed Work

Me., Eden—Town plans to spend $40,000 repairing roads, bituminous macadam. C. F. Paine, treas.

Mass., Andover—Bd. Pub. Wks. appropriated $38,500 to pave streets. F. L. Cole, supt.

Mass., North Adams—City appropriated $24,000 for paving on State and Union Sts.; also $10,000 for extension to water service to high school. F. W. Proctor, city engr.

Conn., New London—(Official)—City soon lets contract paving Broad St., Hillside brick. C. R. Darrow, highway comr.

N. Y., Gloversville—City plans to pave East Fulton St., concrete. H. J. Hammer, city engr.

N. J., Paterson—Bd. Pub Wks. voted appropriation of $15,000 for asphalt paving. H. J. Hardes, city engr.

N. J., Paulsboro—City plans to build macadam roads. W. H. Flowers, Jr., city treas.

N. J., Salem—Federal Aid Fund appropriated $59,000 for road from Sharpstown to Woodstown. A. Keasbey, engr.-in-charge.

Pa., Doylestown—City plans to improve various streets. About $11,000.

Pa., Huntingdon—City voted $100,000 bonds for street paving.

Va., Buena Vista—City plans to build 5-mi. road. C. L. Johnson, city engr.

Va., Covington—City voted $150,000 bonds to pave streets. J. H. Overholt, clk.

Va., Graham—City plans to resurface 2-mi. macadam streets.

W. Va., Bluefield—City plans paving work to cost $50,000, bituminous macadam. H. O. Wiles, city engr.

N. C., Durham—City plans to pave various streets. About $300,000 to $400,000. H. W. Kueffner, city engr.

N. C., Whiteville—City plans to pave 2-mi. streets. W. E. MacDaniel, clk.

Fla., Bushnell—(Official)—County voted bonds to build 115-mi. road. W. M. Francisco, Zephyrhills, co. engr.

Fla., Orlando—See "Miscellaneous."

Miss., Greenville—Co. Comrs. plan to build 158-mi. highways, concrete.

Miss., Yazoo City—Highway Comn. soon lets contract improving certain roads; Dist. No. 3, asphaltic concrete, plain concrete, brick gravel or stone with asphaltic wearing surface, including 31.57-mi. clearing and grubbing, 34.79-mi. subgrade, 346,000-cu.yd. grading, 5,173 lin.ft. 15- to 30-in. pipe, 190-cu.yd. plain concrete, 450-cu.yd. rein.-con, 55,000-cu.yd. gravel or stone and 247,000-sq.yd. asphaltic surface. T. H. Craig, chn.

La., Benton—County plans to gravel 14-mi. road. J. M. Henderson, co. clk.

La., Crowley—County retained H. W. Bell, engr., Laurel, Miss., to make plans building roads in Dist. No. 1. About $400,000.

La., Franklinton—County plans election to vote on bonds to build roads.

Tenn., Greenville—County plans to build 22-mi. road, water-bound macadam. C. E. Colle, co. engr.

Tenn., Jonesboro—Co. Good Rd. Comn. to let contract in May for 250-mi. 10-, 14- and 15-ft. macadam roads. About $761,775. E. J. Baxter, secy.

Tenn., Jonesboro—County to sell $750,000 bonds Apr. 30 to build roads. Noted Apr. 12.

Tenn., Lawrenceburg—County sold $350,000 bonds to build roads. R. M. Baker, ch. engr. rd. comn.

Tenn., Newport—County plans improving 30 mi. of road during 1917.

Ky., Augusta—County voted $200,000 bonds for road work. W. V. Weldon, Brooksville, co surv.

Ky., Battlesburg—County plans 50 mi. of roads. Fred Geisling, co. engr.

Ky., Danville—County having plans prepared for 4½-mi. water-bound macadam road, 14 ft. wide. J. B. Nichols, co. clk.

Ky., Falmouth—County plans to build 18-mi. road. B. B Barton, rd. engr.

Ky., Flemingsburg—County plans to resurface 2½-mi. road. R. Cassidy, co. engr.

Ky., Franklin—County plans to build 5-mi. Springfield Rd. O. Hayden, Jr., engr.

Ky., Hodgenville—County plans to build 4-mi. road, macadam. A. B. Trogman, co. engr.

Ky., Maysfield—County plans to improve about 75 mi. roads. H. Ford, co. engr.

Ky., Shelbyville—County plans to resurface 18-mi. road. G. M. Middleton, rd. engr.

O., Cambridge—County plans to issue $40,000 bonds to improve roads in Valley Twp.

O., Canton—City plans to improve portion Herbrick Ct., N. E. W. E. Sarver, city engr.

O., Cincinnati—City plans to pave portion Gilsey and Verne Ave., also Gilman and Hoffner St. F. Krug, city engr.

O., Canton—See "Sewers."

O., Cleveland—City plans to pave portions East 106th, Andover, West 68th and West 91st St., also Standhope and Eichorn Ave. R. Hoffman, city engr.

O., Cleveland—County to sell $73,323 bonds May 9 to improve Lee Rd. E. G. Krause, clk.

O., Dayton—Co. Comrs. soon let contract paving portion Keowee St. About $56,000.

O., Lima—City plans to improve portion Metcalf St. B. C. Miller, city engr.

O., Marion—City plans to build sidewalks on Spencer, Ivanhoe and Waterloo St.; also Grant Ave. E. S. Ault, city eng.

O., St. Clairsville—(Official)—County to sell $56,697 bonds May 14 to improve roads B. W. Hopkins, co. aud.

O., Sidney—City plans to improve portion Dallas St. T. Blake, city engr.

Mich., Big Rapids—County plans to build several miles of road. A. Willitts, co. engr.

Mich., Manistique—County plans to pave 75-mi. road, macadam. J. E. McCarthy, co. engr.

Mich., Newberry—County plans to build 10-mi. road, macadam. J. A. Broad, co. engr.

Ill., Bloomington—City plans to pave East Grove St, creosote blocks. About $40,230. E. H. Packard, city engr.

Ill., Deland—Village to let contract about July 1, 1½-mi. brick pavement, north and south of village to connect with state-aid roads T. J. Anderson, Monticello, supt. of highways.

Ill., Freeport—County plans to spend $70,000 during year as follows: Grading 350 mi. road (county furnishing tractive power), $10,500; dragging 300 mi. road, $4000; building gravel roads, $4000; bridges and culverts, $40,500; machinery, $5000; filling ditches, $6000. O. G. Hiveley, supt. highways.

Ill., Mattoon—City plans to repave portion Broadway and Champaign Ave., brick. J. A. Goetz, city engr.

Ill., Ottawa—City to let contract in May for loop paving. About $100,000. G. L. Farnsworth, city engr.

Ill., Peoria—County defeated $1,700,000 bond issue to improve roads.

Ill., Rock Island—Bd. Local Improv. plans paving 24th St., 18th and 23rd Aves., brick, 27 ft wide. W. Treichler, city engr.

Ill., Salem—City plans to pave 5-mi. streets. H. H. Kaufman, city treas.

Wis., Jefferson—County plans to spend $30,000 to improve roads. R. D. Royce, Ft. Atkinson, highway comr.

Wis., Portage—Co. Comrs. plan to spend $100,000 to improve roads. J. T. Henton, Doylestown, highway comr.

Ia., Davenport—City plans to grade 16 streets. About $10,905. A. R. Boudenot, city engr.

Ia., Rock Rapids—City plans to pave 25 blocks. W. F. Guigrich, city engr.

Minn., Brainerd—City plans to pave 15 blocks, concrete. L. Kindsen, city engr.

Minn., Cambridge—County plans to spend $40,000 during year to improve state roads. C. G. Smith, co. aud.

Minn., Glenwood—County plans to spend $30,000 building roads during year. L. Martin, co. engr.

Minn., Litchfield—County plans to spend $40,000 to improve roads. P. P. McNamara, highway engr.

Minn., Mankato—County plans to grade and gravel roads. N. Moe, co. engr.

Minn., Minneapolis—Legislature passed bill enabling county to build and maintain roads to cost $440,000. E. E. Terrell, Minneapolis, engr.

Minn., Slayton—County plans to build 25-mi. state road. P. E. Minder, co. engr.

Minn., Virginia—City plans to pave and curb 21 blocks, also build cement sidewalks on 21 blocks. E. F. Johnson, city engr.

Minn., Windom—County plans to build 25-mi. turnpike. S. A. Brown, co. aud.

Kan., Independence—County preparing plans to improve roads and build bridges during year. About $55,000 and $25,000, respectively.

Kan., Sharon Springs—County plans to resurface 90-mi. dirt roads. E. R. Ellison, co. clk.

Neb., Schuyler—See "Excavation and Dredging."

Neb., Superior—City voted $25,000 bonds to pave streets.

Wyo., Meeteetse—County plans election to vote on $32,000 bonds for road work.

Mont., Butte—County plans to resurface 9-mi. road. C. Feeney, co. engr.

Mo., Hillsboro—County plans paving about 500 mi. roads with $500,000 bonds recently issued H. D. Griffiths, co. engr.

Mo., Houston—County plans to grade 100-mi. road. G. Murphy, co. engr.

Mo., Jackson—County plans election to vote on $750,000 bonds to build roads.

Mo., Salem—Co. Comrs. plan to issue $100,000 bonds to build roads. J. H. McDonald, clk.

Mo., Sikeston—County election May 17 to vote on $800,000 bonds to build roads.

Mo., Springfield—City plans to improve portion roadway Myrtle St., tarvia filled macadam. O. D. Christman, city engr.

Mo., Waynesville—County plans to grade 40-mi. road. A. G. Williams, co. engr.

Ark., Des Arc—City sold $20,000 bonds to improve sidewalks in Improv. Dist. No. 1.

Ark., Eureka Springs—County rejected bids road between Eureka Springs and Benton Co. line. R. D. Alexander, engr.

Ark., Walnut Ridge—County sold $120,000 bonds to improve roads in Dist. No. 1 and $20,000 bonds for Dist. No. 2.

Tex., Giddings—County preparing plans 100-mi. gravel road, Dist. No. 1. J. H. Tate, co. judge.

Tex., Hereford—County prepared plans building road and bridges in connection with Ozark Trail highway. T. E. Huffman, co. highway engr.

Tex., McAllen—See "Sewers."

Tex., Pittsburg—County election May 11 to vote on $110,000 bonds to build 32-mi. hard-surfaced roads in Precinct No. 2.

Tex., San Angelo—City plans to repave Devine Independent School Dist. Cost, $25,000.

Tex., Waco—City voted $50,000 bonds to improve streets and install sewers. G. B. Gunley, city engr Noted Apr. 12.

Tex., Wheeler—County voted $35,000 bonds to build roads.

Tex., Wichita Falls—County election May 24 to vote on $750,000 bonds to build roads.

Okla., Chickasha—County plans to improve 127-mi. state highway. E. E. Colby, co. engr.

Okla., Muskogee—County defeated $1,000,000 bonds to build 160 mi. road and bridge over Arkansas River.

Okla., Purcell—County voted $20,000 bonds to improve roads. G. H. Thomas, clk.

Okla., Tishomingo—Gibbs and Garner Twp., Johnston Co., election May 12 to vote on $12,000 bond issue each to improve roads.

Okla., Tulsa—City plans to pave 19 streets. E. C. Hughes, city engr.

Okla., Tulsa—City voted $100,000 bonds for boulevard and to improve park.

Utah, Ogden—See "Sewers."

Ariz., Clifton—County to vote May 19 on $200,000 bonds for Clifton-Springerfield Highway.

Wash., Aberdeen—City soon lets contracts paving and sidewalks on portion of E. 1st St., $32,791, asphalt, $28,307, concrete; Hume St. and Michigan Ave., $13,256, asphalt, $12,482, asphaltic concrete, $11,966, concrete.

Wash., Ellensburg—City soon lets contract concrete walks on portions of Chestnut, Walnut, Sampson, Sprague, 7th and 8th St. About $16,000. A. F. Edward, city engr.

Wash., Everett—Co. Comrs. rejected only bid for Scenic Highway. New bids. About $11,000. W. C. Bickford, co engr.

Wash., North Yakima—Co. Comrs. passed resolution to build McClellan Pass Highway from the Nile through Rainer Natl. Park and appropriating $17,625 for county's share, state to contribute $32,375 and Government $50,000. C. E. Barrett, audr.

Wash., Seattle—County to build 6-mi. highway connecting Kirkland and Redmond. S. J Humes, co. engr., prepared plans.

Ore., Astoria—City plans to spend about $250,000 for paving and improving streets during year and $50,000 for sewers. G. T. McLean, city engr.

Ore., Marshfield—A. Hauperman, city engr., preparing plans grading and hardsurfacing portion North Broadway. About $35,000.

Cal., Alturas—Bd. Supervs. plan election to vote on $300,000 bonds for highway work.

Cal., Auburn—City voted to pave all main streets.

Cal., Marysville—County plans highway comprising 99 mi. gravel road and 9 mi. oil macadam road. About $278,000.

Cal., Modesto—See "Sewers."

Streets and Roads (Continued)

Cal., **Holliston**—Town plans to pave West 6th and 7th St. C. H. Wagner, town treas.

Cal., **Oakland**—Mt. Diablo Estate, Broadway and 15th St. plans 3½-mi. highway near Mt. Diablo.

Cal., **Santa Barnara**—City preparing plans paving 17 blocks on Bath St., warrenite. A. B. Cook, city engr.

Cal., **Tulare**—City Trus. plan paving several streets through town to connect end of state and county highway; cost, $35,000.

Cal., **Visalia**—County sold $1,000,000 bonds of the $2,200,000 issue for constructing highways. B. O. Lovelace, co. surv.

Bids Desired

Me., **Bangor**—Until May 14 by City paving Main St., macadam. F. E. Pressey, city engr.

R. I., **Providence**—(Official)—Until May 2 by State Bd. Pub. Rd. for 375,000-gal. asphaltic oil or 150,000-gal. refined tar; advertised in this issue.

Conn., **Bristol**—(Official)—Until May 1 by T. B. Steele, city clk., for grading, road surfacing, etc.; advertised in this issue.

Conn., **Darien**—(Official)—Until May 1 by R. N. Greene, supt. highways and bridges, paving 12,000-sq.yd.; advertised in this issue.

N. Y., **Albany**—(Official)—Until May 1 by State Highway Comn., 55 Lancaster St., highways in various counties; advertised in this issue.

N. Y., **Brooklyn**—Until May 2 by L. H. Pounds, boro. pres., regulating, grading, curbing and laying sidewalks on portion Cedar Pl.; regulating and paving with permanent asphalt on 6-in. concrete foundation portion Riverdale and Greene Ave.; regulating and repaving with permanent Grade 1 granite pavement on 6-in. concrete foundation portion of Jay, Prospect, River and Sands Sts., Park and Utica Ave., Union Lane and Plaza Space; regulating and grading sidewalks on Washington, Franklin and Liberty Aves.; laying cement sidewalks on portion 4th Ave. and Pilling St.; furnishing and delivering about 63,-708 ft. B. M. lumber, 800-ft. of which shall be spruce and remainder long leak yellow pine.

N. Y., **Dunkirk**—(Official)—Until May 1 by Common Council paving various streets; advertised in this issue.

N. Y., **Islip**—(Official)—Until Apr. 30 by C. D. Schlemmer, supt. highways, paving 2900-cu.yd. concrete and 3000-sq.yd., also for warrenite resurfacing; advertised in this issue. Noted Apr. 5.

N. Y., **Olean**—(Official)—Until May 14 by Comrs. Pub. Wks. for brick pavement, etc., on East Pine St.; advertised in this issue.

N. Y., **Watervliet**—(Official)—Until May 14 by Bd. Estimate and Apportionment paving 6th Ave. and 15th St.; advertised in this issue.

N. J., **Bound Brook**—(Official)—Until May 8 by Mayor and Council laying 13,000-sq.yd. vitri. brick paving with appurtenances, etc.; advertised in this issue.

N. J., **Trenton**—(Official)—Until May 1 by Bd. Freeholders repairing Greenwood Ave. and Lawrenceville Rd., bituminous concrete, also installing new drains, new foundations, etc. H. F. Harris, co. engr. Noted Apr. 12.

Pa., **Northampton Heights**—(Official)—Until May 7 by Boro. Council for 9000-sq.yd. paving; advertised in this issue.

Pennsylvania—Until May 3 by State Highway Comr. Harrisburg for following roads: Dauphin Co., reconstructing 1270 lin.ft. vitr. block pavement in Swatara Twp.; Clarion Co., 14,128 lin.ft. vitr. block pavement Pain Twp.; Cambria Co., 32,922 lin.ft. vitr. block and rein.-con. pavement, Jackson and East Taylor Twp.; Washington Co., 36,170 lin.ft. vitr. block and rein.-con. pavement in Cecil and North Strabane Twp.

Md., **Oakland**—(Official)— Until May 3 by Co. Comrs. building 3.02-mi. state aid highway. W. G. Meyer, clk.

W. Va., **Morgantown**—Until May 7 by Co. Clk., building and improving 24.1-mi. road, brick, Logan Dist., R. M. Wilson, co. engr.

N. C., **Lenoir**—(Official)—Until May 30 by Mayor for complete sidewalk and street paving; advertised in this issue.

Ga., **Augusta**—(Official)—Until May 10 by Streets and Drains Com. paving portion Monte Sano Ave.; advertised in this issue.

Fla., **Lakeland**—Until May 14 by city for purchase of $80,000 bonds to improve streets. J. F. Cox, mayor and chn. finance com.

Ala., **Eutaw**—Until May 14 by Co. Comrs. grading and draining portion State Trunk Rd. No. 7. W. S. Keller, Montgomery, state highway engr.

Miss., **Brookhaven**—Until May 7 by Chancery Clk., improving 19.7-mi. roads in Dist. No. 4. C. F. Sherman, McComb, engr.

Miss., **Columbus**—Until May 3 by Guerry, chn. comrs. Artesia Rd. Dist., Artesia, for 7-mi. rock road, and by D. A. Burgin, chn. comrs. Mayhew Rd. Dist., Mayhew, for 3-mi. rock road.

Miss., **Indianola**—Until May 9 by Bd. Highway Comrs., Dist., No. 2 & 3, for permanent highways of concrete, gravel and asphalt surface, also drainage; about $200,000 available. Stein & Harbert, Indiana, engr. Dist. No. 3, H. S. Gove, Moorehead, engr. Dist. No. 2.

La., **Convent**—Until May 1 by F. M. Bertaut, secy. police jury, Lauderdale, for 27,800-yd washed gravel on east bank of Mississippi River, 44,700-yd. washed gravel on west bank, 48,000-yd. sand and clay gravel on east bank, also for building gravel roads and about 400 25-ft. culverts.

La., **Lake Charles**—(Official)—Until May 1 by H. G. Chalkley, pres. police jury, 70,000-sq.yd. concrete roads, Calcasieu Parish; advertised in this issue.

O., **Cleveland Heights**—(Official)—(Warrensville P. O.)—Until May 7 by H. H. Canfield, clk., improving portion Glenmont Rd.

O., **Dayton**—Until May 3 by W. H. Azsling, clk. bd. co. comrs., for paving portion Keowee St., brick.

O., **Kent**—(Official)—Until May 21 by F. Bechtle, clk., improving North Prospect St., Park and Pioneer Ave., including 9000 sq.yd. paving, 8000 lin.ft. curb, storm drains and catch basins. E. S. Roger, engr.

O., **Newark**—(Official)—Until May 22 by E. H. French, co. clk., improving portion Coshocton St., brick.

O., **Wapakoneta**—Until about July 1 by City paving 13,530-sq.yd. on Blackhoof and Defiance St. J. H. Meyer, city engr.

Indiana—By co. comrs. for constructing roads as follows: May 7: South Bend, cement road in Penn Twp.; A. F. Wolf, co. aud. Hartford City, roads in Washington Twp.; J. L. McGeath, co. aud. Franklin, crushed stone road Marion Twp.; J. C. Cregg, co. aud. Angola, three concrete roads; I. W. Pence, co. aud. May 8: Marion, stone and tar binder road, Fairmount Twp.; M. McRae, co. aud. Martinsville, gravel road in Baker Twp., stone road in Jackson Twp.; S. Watson, co. aud. Danville, 2 roads in Center Twp.; C. M. Haven, co. aud. Wabash, stone road, Chester Twp., 2 gravel roads in La Gro Twp.; F. P. Kircher, co. aud. Peru, macadam road in Pipe Creek Twp.; F. H. McElheny, co. aud. Rensselaer, 4 stone roads in Newton Twp.; J. P. Hammond, co. aud. Monticello, crushed stone roads in Honey Creek and Union Twps.; A. G. Fisher, co. aud. Decatur, macadamized roads in Monroe, Blue Creek, St. Mary's, Washington, Kirkland Twps.; J. Mosure, co. aud. Princeton, stone roads in Columbia, White River and Barton Twps.; J. H. Armstrong, co. aud. May 9: Lafayette, 2.52 mi. gravel roads in Wayne and Union Twps.; G. W. Baxter, co. aud. May 10: Laporte, roads in Dewey and Center Twps.; F. A. Hausheer, co. aud. May 12: Muncie, gravel or macadam roads, Perry Twp.; F. M. Williams, co. aud. May 14: Indianapolis, gravel roads in Center and Perry Twps.; L. K. Fesler, co. aud. Peru, gravel and concrete road on Peru and Erie Twps. line.; F. K. McElheny, co. aud.

Mich., **Albion**—(Official)—Until May 9 by City Council resurfacing about 7500-sq.yd.; advertised in this issue.

Mich., **Bessemer**—Until May 1 by Co. Rd. Comrs. clearing, grubbing and grading 5 mi. road. C. F. Winker, engr.

Ia., **Toledo**—Until May 1 by Co. Clk. for 6-mi. permanent grading, including 50,000-cu.yd. earth work. A. R. Hebenstreit, co. engr.

S. D., **Spearfish**—Until May 7 by J. M. Ramsey, city aud., building crosswalks, sidewalks, culverts or other concrete work during year.

Ark., **Texarkana**—(Official)—Until May 10 by L. Josephs, secy. Miller Co. Highway and Bridge Dist., for 70-mi. highways, advertised in this issue.

Ariz., **Yuma**—(Official—Until May 1 by City paving 32,000-sq.yd.; advertised in this issue.

Wash., **Everett**—Until Apr. 30 by Co. Comrs. hard surfacing Bond Issue Rds. Nos. 29 and 31. —Until Apr. 30 by Co. Comrs. building permanent highway No. 30.

Wash., **Port Orchard**—Until May 8 by J. M. Peterson, co. aud., for building portion highway No. 250.

Wash., **Shelton**—Until May 8 by I. W. Richardson, co. aud., for permanent highway No. 4. About $13,684. A. L. Ward, co. engr.

Ore., **Coquille**—Until May 5 by L. W. Oddy, co. clk., building 3 highways. Bonds for $362,000 recently voted for work.

Cal., **Bakersfield**—Until May 7 by Bd. Supervs. grading, paving and resurfacing 7.06-mi. and building bridges and culverts on Div. 8, Sec. 2, Old River-Maricope Co. Highway.

Cal., **Santa Barbara**—Until May 3 by A. C. Hall, city clk., grading and building concrete curbs and gutters on Salinas and Carpenteria St.

Prices and Contracts Awarded

(★Indicates award of contract)

Mass., Boston—City received low bid 400,000-gal. road oil from Boston Engr. Supply Co., 159 Pearl St., $35,820.

★**Mass., Fall River**—City let contract Hassam grouted granite block pavement to Simpson Bros. Corp., 166 Devonshire St., Boston; bituminous pavement to Warren Bros. Co., 142 Berkeley St., Boston.

★**Connecticut**—C. J. Bennett, state highway comr., let contracts for road work as follows: Milford Twp., 15,600 lin.ft. rein.-con. on Boston Post Rd. to R. D. Daley Co., 6 Church St., New Haven, about $65,035; Waterford Twp., 13,-200 lin.ft. rein.-con. Norwich, New London Turnpike, Maher & Sprague, Inc., 185 Church St., New Haven, $52,028; Killingly Twp. 3,439 lin.ft. rein.-con. on Main St., Conn. Hassam Pav. Co. 902 Chapel St., New Haven, $15,300; Stonington Twp., 2330 lin.ft. rein.-con. on West Broad St., F. D. Miller, Norwich, $10,820; New Hartford Twp., gravel construction on Nepaug Ave., Acme Eng. Co., 868 Main St., Hartford, $11,300; Wilton Twp., section of native stone construction on Belden Hill Rd., H. Sanford Osborn Redding Ridge, $14,956.

Conn., Derby—City received bids paving about 5350 lin.ft. on Derby Ave., (a) Hassam Bicomac, (b) asphalt, (c) warrenite, (d) topeka, from Conn. Hassam Paving Co., 902 Chapel St., New Haven, (a) $22,485; Warren Bros Co., 142 Brekeley St., Boston, (c) $22,258; Union Paving Co., Schenectady, (b) $22,349, (d) $21,350; E. P. Tracy, 200 Olivia St., Derby, (b) $22,167, (d) $21,986; C. W. Blakeslee & Sons, 58 Waverly St., New Haven, (b) $26,801, (d) $24,985. V. D. Clark, city engr.

N. Y., **Brooklyn**—L. H. Pounds, boro pres., received low bids paving (a) Rockaway Ave., (b) South 8th St.; (c) 8th St., from Ulrich and Persicino, 513 Midwood Ave., (a) $12,017; (b) $17,-923; Leonard Paving Co., (b) $11,481; A. Grossman, 583 Bedford Ave., (c) $12,248.

N. Y., **New York**—(Official)—M. M. Marks, boro. pres., received low bids paving portion (a) McDougal St., (b) 3rd Ave., (c) 36th St., from Sicilian Asphalt Co., 41 Park Row, (a) $10,328; Astoria Contr. Co., 169 Hunter Ave., Astoria, (b) $251,335; Asphalt Constr. Co., Madison Ave. and 137th St., (c) $26,695, W. J. Fitzgerald, 517 W. 45th St., (c) $26,695. Noted Apr. 19.

N. Y., **New York**—C. Ward, comr. of park bd., Municipal Bldg., received low bids repaving with sheet asphalt and asphalt block on concrete foundation portions of Eastern Blvd., Bronx boro. from: Davney Asphalt Co., Inc., 52 Vanderbilt Ave., $47,699; Asphalt Constr. Co., Madison Ave. and 137th St., $49,941; Uvalde Asphalt Paving Co., 1 Broadway, $52,125. Noted Apr. 5.

★N. Y., **New York**—(Official)—R. A. C. Smith, comr. docks, let contract repairing asphalt pavement marginal street and piers, North, East and Harlem Rivers, Contract 1563, to Uvalde Asphalt Paving Co., 1 Broadway, $13,950. Noted Apr. 5.

★N. J., **Jersey City**—County let contract paving Communipaw Ave. and portion Hudson Blvd. to Clinton Contr. Co., 306 Charles St., West Hoboken.

N. J., **Newark**—Bd. St. & Water Comrs. received low bids grading, curbing and paving Blanchard St. from, J. F. Chapman, Hillside, broken stone, $24,492; with slag, $22,852; Mt. Pleasant Ave., wood block on old concrete foundation, Newark Paving Co., 133 1st St., $26,393; asphalt, Standard Bitulithic Co., Essex Bldg., $18,596.

N. J., **Paterson**—City received low bid paving portion Broadway, granite block, from L. Cramer, 99 Ward St., $15,800.

★Pa., **Appolo**—(Official)—Boro. let contract paving, grading and curbing Armstrong Ave., North 9th, Railroad, Grace, North 2nd and South 4th St. to Keystone Constr. Co., Meadville.

★Pa., **Darby**—Boro let contract paving various streets to Union Paving Co., 30th and Locust St., Phila., and J. Kelly, Darby.

Pa., **Greensburg**—(Official)—County received low bids improving highways, (a) Webster-Pittsburgh-Uniontown Pike, (b) Ft. Robinson-School House Rd., (c) Parnassus-New Kingston Rd., (d) Scotdale-Greensburg Rd., Sect. 3, (e) Oak Grove-Wilpen Rd., (f) Harrison City-Export Rd., (g) Greensburg-Scottdale Rd., Sect. 2, from: Bell-Bockel Co., Central Tr., Altoona, (a) $56,-508, (b) $101,209, (f) $156,319, (g) $93,845; Rinehart Bros. Co., East Liverpool, O., $56,-983; McLaughlin Contr. Co., Germania Bank Bldg., $88,217.

★Pa., **Wilkes-Barre**—City let contract paving streets and installing sewers to D. Buckley & Son, 40 Oregon St., $12,000.

★Va., **Gate City**—(Official)—County plans to build 100-mi. graded roads this year. Work will be done by contract, force account and convict labor. R. J. Phipps & Co., Coeburn, and W. T. Sneed & Co., Norton awarded contract for 1st, 15-mi. work. Noted Apr. 5.

★W. Va., **Welch**—County let contract 45-mi. concrete road to Harrison Eng. Constr. Corp., Morgan Bldg., Buffalo, and Consolidated Eng. Co., 243-59 Calvert Bldg., Baltimore.

★Ala., **Birmingham**—County let contract 20-mi. gravel road, including pipe culverts, to Middleton & Smith, Brookhaven, Miss., $37,941.

★Ky., **Madisonville**—County let contract building 2-mi. road, macadam, to W. E. Stone, Madisonville, $13,355.

★O., **Cincinnati**—Bd. Control let contract improving portion St. Clair St., Jefferson and Glendora Ave., to Henkel & Sullivan, 710 Mercantile Library Bldg., $12,775.

Streets and Roads (Continued)

★**O., Cincinnati**—Dept. Pub. Serv. let contract cement sidewalks in Dists. Nos. 1, 2, 3 and 4 to C. Kuhl Art Stone Co., 603 Reading Rd., $26,000.

★**O., Cleveland**—County let contract paving and sewering portion Anderson Rd. to C. Dempsey, 1366 Noble Rd., $20,700.

★**O., Montpelier**—(Official)—City let contract paving East Washington and East Ave., Court, State and Jonesville St. to Brook Constr. Co., 2104 Miner St., Ft. Wayne, Ind., $51,622.

★**O., Toledo**—City let contract paving Elm St. to H. P. Streicher, 317 Terminal Bldg., $70,475; Miami St. to Harris & Tansey, 221 Nasby Bldg., $71,687.

★**O., Youngstown**—City let contract grading Madison Ave. to Victor Olson Contr. Co., Youngstown, $27,383.

★**Ind., New Albany**—(Official)—County let contract 7700-ft. road to S. T. Games, R. F. D. No. 3, $12,700. Noted Apr. 12.

★**Mich., Battle Creek**—County let contract, 5¾ mi. brick pavement to Stoddard Constr. Co., Grand Rapids, $135,298.

★**Ill., Bloomington**—City let contract paving portion South Main St. to I. D. Lain, $38,800.

Wis., Plymouth—City received low bids about 15,446 sq.yd. pavement, also concrete curb and gutter, as follows: Rein.-con. paving with curb and gutter, F. Radloff, Plymouth, $30,816, rein.-con. paving with integral curb and gutter $31,-030; asphaltic concrete. Williston Constr. Co., Chicago, $35,160; asphaltic concrete, type A, $31,-882; brick, Minco Co., Richland Center, $44,023.

★**Minn., Duluth**—City let contract 200,000 gal. oil for oiling 79 streets to Standard Oil Co., Sherwood Bldg., Duluth.

Minn Minneapolis—City received only bid for 50,000 gal. refined tar from Barrett Bros., 17 Battery Pl., New York, 8c. per gal. f.o.b. cars Minneapolis, 8½c. f.o.b. factory, 10c. distributed on streets.

★**Kan., Parsons**—(Official)—City let contract paving 25,000-yd. to Elliott & Vance, Parsons, $53,000.

★**Tex., Plainview**—(Official)—City let contract grading, draining and paving 70,000-sq.yd. to J. N. Jordan & Co., Plainview. Noted Apr. 5.

★**Cal., Eureka**—County let contract 4-mi. Lord-Ellis Highway, including 14 bridge and culverts, to E. B. Anger, Blue Lake, $11,785.

Cal., Modesto—Bd. Supervs. received low bids concrete highways from Rogers Bros. Co., 506 Hiberian Bldg., Los Angeles, at $107,000 for about 9.876 mi. on Westley-Crows Landing unit; Teichert & Ambrose, Sacramento, at $130,000 for 8.222 mi. on Waterford unit.

★**Cal., Modesto**—City let contract Denair-Irvin city highway to Johnson & Larsen, Turlock, $76,-500 for concrete pavement and 70c. per cu.yd. for excavation.

Cal., San Diego—County received low bid building 9.4-mi. Laguna Rd., Cleveland Natl. Forest, from C. L. Hyde Constr. Co., Spreckles Bldg., $17,935.

★**Cal., Whittier**—City let contract paving portion Painter Ave. to Fairchild Gilmore-Wilton Co., Pacific Electric Bldg., Los Angeles, about $73,000.

★**Ont., Woodstock**—(Official)—County plans to spend $10,000 to repair roads by day labor. Noted Apr. 12.

RAILWAYS

STEAM AND ELECTRIC

Proposed Work

Mass., Malden—See "Industrial Works."

N. Y., Albany—New York Central & Hudson River R.R. (branch of New York Central R.R., lines east of Buffalo) asked City Council for permission to lay 500-ft. branch track on Tivoli St. G. W. Kittredge, Grand Central Terminal, New York, ch. engr.

N. J., Camden—Pennsylvania R.R. made surveys electrifying line from Camden to Pemberton and from Camden to Trenton. A. C. Shand, Broad St. Station, Phila., ch. engr.

N. J., Newark—Lehigh Valley R.R. granted permission by Bd. Works to extend tracks from Sherman Ave. to point near East Peddie St. E. B. Ashby, 143 Liberty St., New York, ch. engr.

—Pub. Serv. Ry. granted permission by Bd. Pub. Utility Comrs. of New Jersey to issue $2,000,-000 capital stock for extensions. R. E. Danforth, Pub. Serv. Bldg., Broad and Bank St., Newark, vice pres. and gen. mgr.

N. J., Trenton—Pennsylvania R.R. granted permission by Bd. Pub. Utilities to issue $60,000,300 bonds, $26,370 of which will be used to reimburse company for expenditure, and balance for extensions, improvements, proposed new structures and equipment. A. C. Shand, Broad St. Station, Phila., ch. engr.

Pa., Titusville—Northwestern Pennsylvania Ry. plans extending line from Titusville to Cambridge Springs. E. O. Shryock, Meadville, gen. supt.

Md., Hagerstown—Cumberland Valley R.R. will grade and double-track 2-mi. section of line. J. H. Tonge, Chambersburg, supt.

N. C., Bridgewater—F. M. Bachman, 1320 North Meridian St., Indianapolis, interested in railway from Bridgewater southeast to timberlands in Rutherford and Cleveland Cos., 12 mi.

N. C., Grandin—Watauga & Yadkin River R. R. will extend line from Grandin to Lenoir, 14 mi. H. C. Landon, Wilkesboro, gen. mgr. and ch. engr.

Ga., Atlanta—North Georgia Mineral R.R., recently incorporated with $1,250,000 capital stock as subsidiary company of Louisville & Nashville R.R., plans line from Atlanta, northwest to point near Cartersville, through Fulton, Cobb, Cherokee and Bartow Cos. A. C. King and H. Spalding, Empire Bldg., Atlanta, interested.

Ga., Savannah—Savannah Electric Co. will apply to City Council for franchise to construct extension on Abercorn St. to 51st St. and west on 51st St. to Barnard St. H. C. Foss, Bay and Whitaker St., mgr.

Ala., Pyriton—Oden-Elliott Lumber Co., 1st Natl. Bank Bldg., Birmingham, acquired 73,000 acres timber land, and will construct 13-mi. railway from Pyriton.

Tenn., Bristol—Bristol Traction Co. will improve Holston Valley line. F. Dulaney, Georgia Ave. Extension, vice pres. and gen. mgr.

O., Canton—Wheeling & Lake Erie R.R. will lay 4 additional tracks from main line of road east of city to plant of United Alloy Co. and other mills in eastern section. W. L. Rohbock, Electric Bldg., Cleveland, ch. engr.

O., Cincinnati—Cincinnati Traction Co. asked permission of City Council to extend lines, also double-track line on Central Ave. from 4th St. to Freeman Ave. T. Fitzgerald, Traction Bldg., gen. mgr.

O., Cleveland—Cleveland Ry. granted permission to lay double track extension on East 155th St. from Lake Shore Blvd. to Waterloo Rd. to cost $60,000, half of which to be paid by Euclid Beach Co. G. L. Radcliffe, Leader News Bldg., gen. mgr.

Ind., Bicknell—Pennsylvania Lines West of Pittsburgh having surveys made for coal road extension from Indiana Creek Mine to Evansville, via Petersburg, Oakland City and Princeton. T. Rodd, Pennsylvania Station, Pittsburgh, ch. engr.

Ind., Indianapolis—Indianapolis Traction & Terminal Co. will construct single-track line with necessary switches on portion West 10th St. J. J. Mahney, Traction Terminal Bldg., supt.

Ill., Harvard—Chicago, Harvard & Geneva Lake Ry., Walworth, Wis., received franchise from City Council to build line on portion West Front St. C. F. Propst, Walworth, treas., gen. mgr., claim agt., and pur. agt.

Wis., Superior—Canadian Northern Ry. system secured right-of-way for railway from Superior to St. Paul. M. H. MacLeod, Winnipeg, Man., gen. mgr. and ch. engr.

Kan., Chanute—Atchison, Topeka & Santa Fe Ry. preparing plans yard revision and extension work, including over 1,000,00 cu.yd. grading. About $1,000,000. C. F. W. Felt, Railway Exchange Bldg., Chicago, ch. engr.

S. D., Kimball—Dakota Short Line Ry. plans railway from Kimball to Gann Valley. G. W. Adams, promoter.

Mont., Helena—Great Northern R.R. plans to spend $7,500,000 to improve lines in Montana during year including double tracking new line, building track and side track. A. H. Hogeland, 4th and Jackson St., St. Paul, ch. engr.

Tex., Beaumont—Texas Steel Co. granted franchise to construct and operate electric or gasoline railway from Magnolia Ave. street car line to plant; also steam railway from Atchison, Topeka, & Santa Fe R.R. tracks at junction of 4th St. in Steel City addition and Colliers Ferry Rd. to plant. L. P. Featherstone, pres.

Tex., Roby—Roby & Northern R.R. plans to extend line from Roby to Snyder, 40-mi. L. C. Eastland, Roby, vice pres. and gen. mgr.

Okla., Hooker—Panhandle & Western R.R. granted charter to build steam railway through Texas (Hooker, county seat), and Cimarron Counties to Mineral, (Kenton P. O.), about 100 mi. V. V. Grant, and S. W. Walker, Miami, and C. Witt, Oklahoma, incorporators. Noted Apr. 5.

Nev., Reno—Western Pacific R.R. purchased Nevada, California & Oregon Ry. and will spend $450,000 on improving line from Reno to Chilcoot, Cal. T. J. Wyche, Mills Bldg., San Francisco, ch. engr.

Ariz., Globe—Globe-Miami Electric Ry., recently incorporated, making surveys for interurban electric line from Globe to Miami, 11 mi. F. J. Dains, Kansas City, Mo., gen. mgr.

Wash., Cowiche—Northern Pacific Ry. plans branch line from Cowiche to Tieton, about 6½-mi. Cost, $224,271. H. E. Stevens, 5th and Jackson St., St. Paul, ch. engr.

Ore., Beaver Hill Junction—(Coquille P. O.)—Southern Pacific Ry. plans to extend line from Beaver Hill Junction to Bandon, via Beaver Slough and down Coquille River to coast. W. Hood, Flood Bldg., San Francisco, ch. engr.

Ore., Wilkesboro—(Banks P. O.)—Gales Creek & Wilson River Ry. plans line from Wilkesboro up Gales Creek toward Wilson River. J. Parsons, 127 East 20th St., Portland, pres.

Cal., Darwin—Darwin Development Co. plans electric railway along south shore of Owens Lake to connect with Southern Pacific Ry. at Olancha, 23 mi.

Cal., Eagle Rock—Glendale & Montrose Ry. applied for franchise to lay tracks across Colorado Blvd. to site of passenger station company plans to build. J. W. M. Burton, 1112 Broadway St., Glendale, gen. mgr. and pur. agt.

Cal., Long Beach—Pacific Electric Ry. granted permission by City Comn. to construct spur track from municipal dock line to plant of J. F. Craig Shipbuilding Co. J. McMillan, Pacific Electric Bldg., Los Angeles, gen. mgr.

Cal., Pasadena—H. Dobbins submitted plans for proposed municipal railway. About $2,500,-000. R. B. Orbison, city engr.

Cal., Portersville—Atchison, Topeka & Santa Fe Ry. (Coast Lines) will build line from Portersville to Bakersfield, about 60 mi. G. W. Harris, Los Angeles, ch. engr.

Cal., Portersville—Southern Pacific Co. has had plans prepared for branch line of Portersville Northeastern R.R. near Adobe Station to serve granite quarries east of city. W. Hood, Flood Bldg., San Francisco, ch. engr.

N. B., Moncton—Moncton Tramways, Electric & Gas Co., Ltd., plans to extend system. Plans have been submitted to Council for additional tracks routes. E. B. Reeser, Farmers' Bank Bldg., Pittsburg, vice pres. and gen. mgr. A. B. Coryell, Moncton, gen supt.

Ont., Swastika—Temiskaming & Northern Ontario Ry. made surveys branch line from Swastika to Kirkland Lake gold mining camp, about 6-mi. S. B. Clement, North Bay, ch. engr. and supt.

Prices and Contracts Awarded

(★Indicates award of contract)

★**Pa., Oakville**—Cumberland Valley R.R. let contract grading and double-tracking line from Oakville to Shippensburg, 6 mi., to Mason & Hanger Co., 52 Vanderbilt Ave., New York.

★**Va., Hampton**—Hampton & Langley Field Ry. let contract grading line from Hampton to Langley aviation field to Gannaway-Hudgins Co., Hampton.

★**N. C., Charlotte**—Southern Ry. let contracts double-tracking line from Charlotte to Mt. Zion (Converse P. O.) as follows; from Blacksburg to Gaffney, S. C., 9.6-mi., and from Cowpens to Mt. Zion (Converse P. O.) S. C., 5.8-mi. to Brookes-Callaway Co., Healy Bldg., Atlanta; from Bessemer City, N. C., to Blacksburg, S. C., 18-mi. to C. W. Lane & Co., Healy Bldg., Atlanta; from Belmont to Bessemer City, 16.8-mi. to Crawford-Morrow Co., 182 Marietta St., Atlanta; from Charlotte to Belmont, N. C.; 10.9-mi., to R. Russel, Charlotte; from Gaffney to Cowpens, S. C., 10.4-mi., to Dunnavant & Gunter Co., Knoxville.

★**Ky., Ashland**—Ashland-Greenup Ry. let contract railway from Ashland to Russell, 5 mi., to Vaughan Constr. Co., Shawsville. Noted Apr. 12.

★**Ill., Litchfield**—Chicago, Burlington & Quincy R.R. plans 24-mi. second track from Litchfield to Virden. Work to be done by company's forces. About $375,000. A. W. Newton, 547 West Jackson Blvd., Chicago, ch. engr.

★**Mo., Kansas City**—Kansas City Rys. let contract 7 mi. track extension on various streets to Columbia Constr. Co., 1410 1st National Bank Bldg., Milwaukee, $342,900.

EXCAVATION AND DREDGING

Proposed Work

Ill., Evanston—Dragline Work—(Official)—T. Garland, 6932 Sheridan Rd., Chicago, desires to sublet in connection with sewer contract; advertised in this issue.

Minn., Mankato—Ditch—County plans Ditch No. 50. About $60,000. C. Kennedy, Mankato, aud.

S. D., Clear Lake—Drainage—County rejected bids. New bids soon. About $36,000.

Tex., Robstown—Drainage—County soon lets contract drainage system in Robstown Dist., 80,-000 acres. About $158,000 available.

Cal., Visalia—Irrigation—C. H. Slaughter, Tulare, E. F. Hart, Farmersville, and others, reported interested in plan to organize irrigation district to conserve waters of Kaweah River, including dam to cost $8,000,000. B. Sturgeon, engr., San Francisco, preparing plans.

Bids Desired

Ill., Danville—(Official)—Drainage—Until Apr. 30 by Maple Grove D. D., Vermilion County, excavating all trenches for tile work and trenching work, laying, placing in earth, covering and back filling all tile pipes and catch basins.

Minn., Ivanhoe—Ditch—Until Apr. 30 by County for Judicial Ditch No. 30, 41,900 ft. open ditch and 228,821 cu.yd. excavation. K. A. Hansen, aud.

Minn., Red Lake—Falls Excavation—Until May 1 by County, 6775 cu.yd. excavation, 6497 cu.yd. borrow, 3760 cu.yd. side ditching and 5 metal culverts. G. Dupont, aud.

Excavation and Dredging (Continued)

Kan., **Scandia**—Drainage—Until May 3 by D.D. No. 1 for cleaning and straightening Mud Creek, enlarging main levee, 600-ft. long, enlarging and extending levee 1900-ft. long and willow and brush riprap, 400 x 660-ft. Address G. A. Nystrom.

Neb., **Schuyler**—(Official)—Drainage, etc.—Until May 1 by H. Fletcher, co. clk., for excavation of drainage ditch and road improvements, involving 95,200 cu.yd. excavation; 60,100 cu.yd. road improvement; 3000 cu.yd. cleanout old ditch. About $31,000.

Ore., **Vale**—Irrigation—See "Reinforced Concrete."

Prices and Contracts Awarded

(★Indicates award of contract)

★**Fla., Jacksonville**—Canal—Merrill-Stevens Co., 620 East Bay St., let contract cutting 1000-ft. canal 150-ft. wide, and 15-ft. deep, on south side of St. Johns River, opposite Commodore's Point, to be used in connection with extension of shipbuilding plant, to Seaboard Dredging Co., Durkee Bldg.

★**Ia., Algona**—Drainage—Emmet-Kossuth-Palo Alto Dist. No. 84 let contract tile to Olson Bros., Lone Rock, $143,954; open work to H. C. Whitney, 3618 Jackson Ave., Sioux City, at 8c. 6.8c. and 6c. per yd.

★**Cal., Anderson**—Excavation—Anderson-Cottonwood Irrigation Dist. let contract excavating and concrete work to Shattuck-Edinger Co., San Francisco, $200,000; excavating 10,000 cu.yd. below tunnel to H. E. Houston.

★**Cal., Calexico**—Canal—Black Butte Development Co. let contract main canal., involving 100,000 cu.yd. excavation, to L. Little, Calexico, $11,000.

INDUSTRIAL WORKS

Proposed Work

Mass., Malden—Eastern Smelting & Refining Co., Charlestown, purchased site of 14 acres and plans 150x400-ft. plant for refining of copper and tin. Plans include wharf on Mystic River and 2 spur tracks, each 1000 ft. long to be run in from western division of Boston & Maine R.R. About $100,000.

Mass., New Bedford—Passaic Cotton Co. plans 5-story, 133x499-ft. brick, mill with 2 wings, requiring about 900 tons structural steel.

Mass., New Bedford—Taunton New Bedford Copper Co. plans 1- and 2-story, 118 x 257-ft. and 134 x 261-ft. machine shop and rolling mill. About $125,000. C. W. Praray, engr., Times Bldg., prepared plans.

Mass., Waltham—J. L. Thomas Mfg. Co. plans 3-story, 50x100-ft. machine shop.

R. I., Providence—Esmond Mills plan 100x200-ft. addition to plant.

N. Y., College Point—(Flushing P. O.) Queensboro Drug Co. plans 6-story, 50 x 100-ft. factory. About $50,000. O. H. Finke, archt., 19 12th St., prepared plans.

N. Y., Rochester—Taylor & Shantz, 230 Mill St., is having plans prepared by Crandell & Strobel, archts., 401 E. & B. Bldg., for a 2-story, 79x128-ft. plant.

N. Y., Troy—Cluett, Peabody Co., 467 River St., plans 9-story factory. About $1,500,000. Westinghouse, Church & Kerr, archts. and engrs., 37 Wall St., New York, preparing plans.

N. J., Elizabeth—D. Kaufman & Sons plans 2 plants, one 3-story, 31x100 ft., and one 1-story, 53x90-ft.

N. J., Newark—Firestone Tire & Rubber Co., 84 Bank St., plans sales and office building at 1008-10 Broad St., about $75,000.

Pa., Hazleton—See "Reinforced Concrete."

—Pennsylvania Warehouse & Safe Deposit Co., 113 South 3rd St., plans, 8-story, 112 x 172-ft., brick and concrete warehouse, Delaware Ave. and Water St.

Pa., Pittsburgh—Manchester Auto and Machine Co. soon lets contract 1- and 3-story, 100 x 130-ft. addition to garage. About $50,000.

N. C., Rutherfordton—Rutherfordton Cotton Mills, recently incorporated with $125,000 capital stock, plans factory. W. W. Hicks, and M. O. Dickerson, interested.

O., Akron—See "Reinforced Concrete."

O., Cleveland—Bamberger, Reinthal Co., 2621 East 9th St., plans 4-story factory. About $100,000. Christian, Schwarzenberg & Gaede Co., archts., 1900 Euclid Ave., prepared plans.

O., Cleveland—Wald Realty Co. prepared plans for 115x164-ft. factory at 1763 East 22nd St. About $65,000.

O., Sandusky—H. Dauch Paper Co., 831 Water St., soon lets contract brick, concrete and steel factory. About $500,000. A. M. Allen & Co., archts., 1900 Euclid Ave., Cleveland, prepared plans.

O., Toledo—See "Reinforced Concrete."

O., Youngstown—Fisher-Gilder Cartage & Storage Co., 24 E. Commerce St., plans 6-story warehouse.

Mich., Detroit—Parsons Mfg. Co., c/o Kniseley Bros., 2799 South 5th Ave., plans 4-story, 58 x 69-ft. ice cream factory and dairy plant. C. D. Cooley Co., archts., Century Bldg., Pittsburgh, soon receives bids.

Ill., Chicago—R. J. Ederer Co., 317 North Michigan St., purchased site at Orleans and Ohio St., and plans 4-story factory. Holabird & Roche, archts., 104 South Michigan St., preparing plans.

Wis., Manitowoc—Aluminum Castings Co. plans 200 x 300-ft. foundry, Calumet Rd. About $250,000.

Wis., Milwaukee—I. Barnett Woolen Mills, 484 Virginia St., plans 2 100 x 185-ft. factories, Muskegon Ave. and Park St.

Wis., Racine—Racine Auto Tire Co. will build 1st unit to proposed new plant to be 160x260 ft. L. Wright, Racine, Sattley Bldg., secy. and treas.

Ia., Des Moines—Iowa Packing Co. preparing plans for plant. About $1,000,000. F. T. Fuller, 3815 South Michigan Ave., Chicago, interested.

Minn., Albert Lea—Albert Lea Packing Co. plans addition to plant. About $125,000.

Minn., Duluth—Rodenbur Safety Step Co. plans factory. About $150,000. J. P. Rodenbur, pres.

Minn., Mankato—Fort Stanwix Canning Co., Rome, N. Y., plans branch plant. About $50,000 to $75,000.

Minn., St. Paul—Farmers Terminal Packing Co., 919 Commerce Bldg., prepared plans brick and rein.-con. plant on Mississippi River. About $400,000.

Minn., St. Paul—Minnesota By-Products and Coke Co., Hamline Ave., plans 10 factory buildings. About $89,000.

Neb., Omaha—Orr Motor Sales Co., 40th and Farnam St., plans garage and salesroom. About $60,000.

Mont., Opheim—Opheim Hardware & Implement Co. plans addition. About $75,000.

Mo., Kansas City—A. R. Meyer, plans 6-story, 80 x 142-ft. glove manufacturing plant to be leased to Boss Mfg. Co., 629 Broadway. About $130,000. J. C. Sunderland, archt., 406 Interstate Bldg., preparing plans.

Mo., Springfield—City will vote June 16 on $500,000 bonds to install electric-light plant. F. F. Moore, clk.

Okla., Pawnee—City defeated $150,000 bonds to build gas plant.

Wash., Mt. Vernon—Mt. Vernon Milling Co. plans 4-story, 90 x 150-ft., brick mill, North 1st and Warren St. P. E. Nelson, mgr.

Wash., Spokane—Whitehouse & Price, archts., Spokane, preparing plans for 5-story, 50 x 100-ft. warehouse for Gray Mfg. Co., Ide Ave. About $75,000 to $80,000.

Bids Desired

Pa., Scranton—Until about May 15 by E. Langley, archt., Scranton Life Insurance Bldg., for 1-story, 65 x 185-ft. machine shop for Sprague & Henwood, Coal Exchange Bldg. About $50,000.

Prices and Contracts Awarded

(★Indicates award of contract)

★**N. H., Manchester**—Consolidated Rendering Co., let contract 3-story, 52 x 70-ft., brick and rein.-con. rendering plant to J. P. Mendell Co., Manchester.

★**Mass., Boston**—Armour & Co., Union Stock Yards, Chicago, let contract 6-story, 100 x 100-ft., rein.-con. and brick warehouse, Berkley St., to Norcross Bros. Co., 10 East Worcester St., Worcester, $200,000.

★**R. I., Woonsocket**—Gold Mark Knitting Co., Railroad St. let contract 4-story, 60 x 110-ft. brick factory to Torrington Constr. Co., Torrington, Conn.

★**Conn., Bridgeport**—Singer Sewing Machine Co., 12 P. O. Arcade, let contract factory to Aberthaw Constr. Co., 27 School St., Boston, $150,000.

★**Conn., Waterbury**—Waterbury Rolling Mills, East Aurora St., let contract addition to Tracy Bros. Co., 52 Benedict St., $50,000.

★**N. Y., Buffalo**—Kittinger Furniture Co. let contract 2-story, 75x220-ft. factory to Hydro Constr. Co., 1010 Mutual Life Bldg.

★**N. Y., New York**—Standard Oil Co., 26 Broadway, let contract warehouse and garage to H. D. Best Co., 52 Vanderbilt Ave. About $68,000.

P. Weeks Estate Corp., 2345 Broadway, let contract 5-story garage to Wells Constr. Co., 237 5th Ave., $60,000.

★**N. Y., Phœnix**—Phœnix Ceramic Works, 50 Church St., New York, let contract factory to E. A. Turner, 34 East 28th St., $125,000.

N. J., Passaic—See "Reinforced Concrete."

★**Pa., Chester**—(Official)—McCausland Eng. Co., Penn. Bldg., Phila., let contract alterations and additions to factory, 5th and Penn St., to Chester Constr. & Contr. Co., Chester, $50,000.

★**Pa., Phila.**—Gill & So., Inc., East York and Thompson St., let contract factory, Tioga St., to W. R. Dougherty, 1608 Sansom St., $250,000.

★**Pa., Pittsburgh**—Iron City Products Co., 1921 Farmers Bank Bldg., let contract addition to D. T. Riffle, Keenan Bldg., $65,000.

★**Pa., Warren**—Jacobs Machine Mfg. Co. let contract machine shop to A. L. Shawn, 7 Cedar St., $100,000.

★**Md., Baltimore**—Severese Macaroni Co., 9th and Baltimore St., Highlandtown, let contract to G. Eyring, 800 South 3rd St., $50,000.

★**Va., Roanoke**—J. W. King, c/o Model Mills, Bristol, Tenn., let contract to J. F. Barbour & Son, Melrose Ave., $250,000.

★**O., Cleveland**—Ohio Forge Co., 2186 East 65th St., let contract plant to De Hamel Constr. Co., 504 Swetland Bldg., $100,000.

★**Kan., Clay Center**—Clay County Produce Co. let contract cold storage and packing plant to Eberhardt Constr. Co., Salina. About $70,000.

★**N. D., Minot**—See "Reinforced Concrete."

★**Cal., Los Angeles**—Los Angeles Union Terminal Co. let contract cold storage plant and warehouse, 1538 7th St., to Wurster Constr. Co., $200,000.

BUILDINGS

Proposed Work

Me., Gardiner—High School—City plans. About $80,000. H. S. Coombs, archt., 11 Lisbon St., Lewiston, prepared plans.

Mass., Clinton—School—St. Johns Church Society plans, 2-story. About $50,000. J. W. Donohue, 476 Main St., Springfield, archt.

Mass., Springfield—School—Bd. Educ. plans, 2½-story, 70 x 200-ft., brick. J. H. Bigelow, archt. 318 Main St., prepared plans.

N. Y., Brooklyn—Convent—Church of Transfiguration, Hooper and Marcy Ave., plans, 4-story, 50 x 100-ft. E. F. Lynch, archt., 345 5th Ave., New York, prepared plans.

N. Y., Ft. Edward—Church—St. Joseph's Congregation plans on Broadway. About $70,000. M. L. & H. G. Emery, Bible House, New York, archts., preparing plans.

N. Y., New York—Theater and Office—Jacob Wendell Estate, 175 Broadway, plans, 6-story, 100 x 258 x 137-ft., to be leased to Moredall Realty Co., Woolworth Bldg. T. W. Lamb, archt., 644 8th Ave., preparing plans.

—Hospital—St. Luke's Hospital, Amsterdam Ave. and 113th St., plans, 2-story, 76 x 200-ft. About $75,000. Columbia School of Architecture, Columbia University, archts.

N. Y., Rochester—Church—East Ave. Baptist Congregation plans. About $200,000. B. G. Goodhue, 2 West 47th St., New York, archt.

N. Y., Schenectady—Lodge—Knights of Columbus plan, 3-story. About $60,000. C. A. Sussdorff, 100 State St., Albany, archt.

—(Official)—Church—Until about May 1 by C. E. Chappell, chn. bldg. com. Methodist Episcopal Congregation, University Ave., new church on Genesee St. About $100,000.

N. J., Fortescue—Hotel—S. Reiter plans, 3½-story. G. King, archt., 1513 Walnut St., Phila., soon receives bids.

N. J., Freehold—High School—Bd. Educ. plans. About $75,000. A. L. Moreau, 58 West Main St., pres. W. H. Conover, archt., 114 Liberty St., New York, prepared plans.

N. J., New Brunswick—High School—Bd. Educ. plans, 3-story. About $250,000. H. G. Parker, 261 Redmond St., pres. A. Merchant, archt., 363 George St., prepared plans.

N. J., Paterson—School—Until about May 15 by Bd. Educ. for 3-story, 136 x 200-ft., brick, on Broadway. About $275,000. H. B. Crosby, 1st Natl. Bank Bldg., archt.

N. J., Trenton—Temple—Masonic Fraternities of Trenton plan on West Front St. About $140,000. S. E. Kaufmar, 123 South Broad St., chn. bldg. comn.

N. J., Trenton—(Official)—Dormitory—State Bd. Educ. rejected bids Apr. 7, dormitory at School for Deaf. New bids.

Pa., Annville—School—Bd. Educ. Annville School Dist. defeated $75,000 bonds to build high school.

Pa., Charleroi—City Hall—City rejected bids. Lowest bid submitted by G. Blair, McKeesport, $72,000. W. S. Woodward, mayor.

Pa., Connellsville—Church—First Methodist Episcopal Congregation plans, 2-story. About $75,000. C. W. Bier, archt., 219 6th St., Pittsburgh, prepared plans.

Pa., Hanover—Y. M. C. A. plans building. About $50,000. A. R. Nisslt, Peoples Bank Bldg., chn. com. C. M. Anderson, 324 North Charles St., Baltimore, archt.

Pa., Johnstown—Church and Parsonage—United Evangelical Congregational plans, 2-story, 100 x 103-ft. About $50,000. J. E. Adams and J. E. Lucas, archts., Lincoln Bldg., preparing plans.

Buildings (Continued)

Pa., Kulpmont—School—City voted $63,000 bonds to build school.

Pa., Locust Gap—School—Bd. Educ. Carmal Twp. plans, 2-story, 50 x 60-ft. About $80,000. C. S. Adams, 1509 Arch St., Phila., archt.

Pa., Phila.—Church—Hope German Presbyterian Congregation, 52nd St. and Haverford Ave., plans, 1-story, 50 x 210 ft., stone. C. Neff, archt., Heed Blk., preparing plans.

Pa., Phila.—Office—Fidelity Trust Co., 331 Chestnut St. plans, Broad and Walnut St. About $6,000,000.

Pa., Phila.—Home—Sunshine Home, 2609 North 6th St., plans 4th St. and Lehigh Ave. About $50,000.

Pa., Sharon—Church—First Presbyterian Congregation plans. About $100,000. C. E. Owsley, archt., Mahoning Bank Bldg., Youngstown, preparing plans.

Pa., Swissvale—School—Bd. Educ. plans, 3-story, 130 x 190-ft., brick, steel and rein.-con. About $200,000. C. H. Lloyd, Telegraph Bldg., Harrisburg, archt.

Md., Baltimore—School—Synagogue and Rabbi's Residence—Talmud Torah Vhoamunch, c/o S. Sigael, 215 Courtland St., plans. About $150,000. T. M. Pietsch, 1210 American Bldg., archt.

Wash., D. C.—Theater—Anchor Co., c/o Marcus Loew, 1493 Broadway, New York, and Shannon & Lauchs, 713 14th St., N., West Wash., plans 105 x 148-ft. About $400,000. T. W. Lamb, archt., 644 8th Ave., New York, prepared plans.

Wash., D. C.—Theater, Store and Office—H. Crandall, c/o Crandall Moving Picture Theater, 9th and E. Sts., N. W., plans, 6-story, 120 x 170 x 90-ft. About $150,000. R. W. Geare, archt., Woodward Bldg., preparing plans.

Va., Norfolk—Hotel—Nansemond Hotel plans, 4-story. About $150,000. R. E. Mitchell, archt., Paul Gale-Greenwood Bldg., preparing plans.

N. C., Asheville—High School—City election June 9 to vote on $150,000 bonds to build high school and extend and remodel other schools.

Ga., Atlanta—Bank—Federal Reserve Bank soon receives bids, 91½ x 200-ft., marble or granite About $150,000 to $200,000. A. Ten Eyck Brown, Realty Trust Bldg., archt.

Fla., Lake Alfred—Hotel—Lake Alfred Hotel plans, 3-story, frame. About $65,000. Bonfoey & Elliott, archts., Petteway Bldg., Tampa, prepared plans. Bids will soon be received.

Fla., Orlando—See "Miscellaneous."

Ala., Troy—High School—City sold $50,000 recently voted to build high school.

O., Akron—Store—H. S. Rivits & Co., 2112 Ontario St., Cleveland, soon lets contract 2-story. About $50,000. Christian, Schwartzenberg & Gaede, 1900 Euclid Ave., Cleveland, archts.

O., Ashland—Hotel—Until about May 15 by V. Redding, archt., Bird Bldg., Mansfield, for addition to Otter Hotel. About $50,000. W. D. Otter, Main St., prop.

O., Barberton—School—Bd. Educ. plans, 236 x 425-ft. About $60,000. Harpster & Bliss, archts., Nantucket Bldg., Akron, prepared plans.

O., Celina—Parochial School—Immaculate Conception Congregation plans, 2-story, 67 x 135-ft. About $60,000. A. De Curtins, 502 Opera House Blk., Lima, archt. prepared plans.

O., Martins Ferry—School—City election May 1 to vote on $150,000 bond issue to build school.

O., Struthers—Church—St. Nicholas Congregation plans, 1-story, 54 x 110-ft. About $60,000. C. J. Ott, archt., Knights of Columbus Bldg., Youngstown, soon receives bids.

O., Toledo—Theater and Store—E. Bioloruckl and W. L. Grudzinxkl, 2700 Cherry St., soon receive bids, 2-story, 20 x 120-ft., brick, Lagrange St. About $60,000. C. W. Beelman, 812 2nd Natl. Bank Bldg., archt.

Ind., Evansville—College—A. F. Hughes, pres. Moores Hill College, interested in campaign to raise $500,000 to build college.

Ind., New Albany—Temple—Masonic Temple Assn. plans, 4-story, 75 x 110-ft. About $75,000. C. C. Martindale, archt., 1200 Fletcher Trust Bldg., Indianapolis, soon receives bids.

Mich., Battle Creek—Schools—Bd. Educ. plans, (2) 3-story, 64 x 120-ft., brick. About $125,000. J. D. Chubb, 109 North Dearborn St., Chicago, archt., prepared plans.

Mich., Bellevue—School—City defeated $75,000 bonds to build high school.

Mich., Benton Harbor—Hotel—Hotel Benton plans 5-story, 100 x 150-ft. addition. About $100,000. A. H. Elwood & Son, archts., Haynes Bldg., Elkhart, preparing plans.

Mich., Grand Rapids—School—Bd. Educ. asked city for appropriation of $170,000 to build additional schools.

Mich., Hancock—Church—Congregational Church plans, 1-story. About $50,000. Maass Bros., archts., Houghton, prepared plans.

Mich., Menominee—School—Bd. Educ. plans, 3-story, 130 x 173-ft., brick. About $125,000. D. Hubert, archt., preparing plans.

Mich., Monroe—Theater and Office—J. E. Denniston Co. plans, 2-story, 45 x 150-ft. About $55,000. C. H. Crane, archt., 2323 Dime Bank Bldg., Detroit, soon receives bids.

Mich., Muskegon—Bank and Office—Union National Bank, 65 West Western Ave., plans, 8-story, 66 x 132-ft. About $200,000. O. Wenderoth, archt., 1907 South Michigan Ave., Chicago, prepared plans.

Ill., Chicago—Dormitory—Bethany Bible Co., 3425 West Van Buren St., plans, 4-story, 40 x 75-ft. About $75,000. M. Dunning, archt., 35 South Dearborn St., prepared plans.

Ill., Chicago—School—Bd. Educ., 7 South Dearborn St., plans addition to Spry School. About $175,000. A. F. Hussander, archt., 7 South Dearborn St., prepared plans.

—Hotel—M. L. Blatt, c/o E. B. Woolfe & Co., 79 Monroe St., plans, 10-story, 148 x 164-ft. About $100,000. H. R. Wilson & Co., archts., 11 South La Salle St., soon receives bids.

—Theater, Store and Office—Estate of C. Kohl plans, 163 x 180-ft. About $1,000,000. M. Beck, 22 West Monroe St., interested. C. W. & G. L. Rapp, archts, 69 West Washington St., prepared plans.

—Hotel—M. Kasper plans, 7-story. About $200,000. J. B. Dibelka, archt., 130 North 5th Ave., prepared plans.

—Hotel—H. L. Newhouse, 4630 Prairie Ave., plans, 8-story.

Ill., Decatur—School—Bd. Educ. plans Lincoln Grade School, 2-story, 72 x 120-ft. About $60,000. Brooks & Bramhall, Title and Trust Bldg., archts., prepared plans.

Ill., Mammouth—Y. M. C. A. plans new building. About $75,000.

Ill., Warsaw—Church—Presbyterian Congregation plans. About $50,000. N. K. Aldrich, 86 Cherry St., Galesburg, archt.

Wis., Kenosha—School—Bd. Educ. retained H. H. Hahn, archt., Market St., to prepare plans, 2-story, brick, rein.-con. and steel. About $100,000.

Wis., Madison—City Hall—City plans. About $150,000. A. H. Kayser, mayor.

Wis., Manitowoc—School—City plans election to vote on $200,000 bonds to build high school.

Wis., Racine—School—Harvey School Dist No. 21 plans on Rapids Rd. About $50,000.

Wis., Waukesha—Schools—Bd. Educ. has had plans prepared for high school, Park school and Union school.

Ia., Bronson—School—City election May 8 to vote on $50,000 bonds to build school.

Ia., College Springs—Schools—City voted $65,000 bonds to build schools.

Ia., Dubuque—High School—Bd. Educ. plans, 2-story. About $500,000. J. W. Royer, Urbana, archt.

Ia., Estherville—Bank—1st National Bank plans, 1-story, 44 x 80-ft. About $75,000. Lytle Co., archts., 101 Masonic Bldg., Sioux City, preparing plans.

Ia., Newton—Junior High and Grade School—Bd. Educ plans, 2-story. About $115,000. H. B. Alfree, pres. Temple & Burrows, archts., 63 Davenport Savings Bank Bldg., Davenport, and Fugard & Knapp, assoc. archts., 111 Monroe St., Chicago, prepared plans.

Ia., Oseola—High School—Bd. Educ. plans. About $100,000.

Ia., Sioux City—High School—Bd. Educ. plans, 2-story, 104 x 132-ft. About $85,000. Beuttler & Arnold, archts., 609-10 Security Bldg., preparing plans.

Minn., Austin—Theater—F. F. Latta plans. About $50,000 to $60,000.

Minn., Duluth—Office—Marine Mfg. Co. plans. About $50,000.

Minn., Mineapolis—Hotel—Ogden Hotel rejected bids, 7-story, 44 x 100-ft. addition. Project suspended indefinitely. Dorr & Dorr, Lumber Exchange Bldg., archts.

Minn., Minneapolis—Academy—Sisters of St. Joseph plan Holy Angels' Academy, 3-story, 60 x 130-ft. About $100,000. J. H. Wheeler, archt., 508 New York Life Bldg., prepared plans.

Minn., Minneapolis—Auditorium—State Legislature passed bill authorizing City Council to issue $800,000 bonds for municipal auditorium. W. G. Nye, mayor.

Minn., Northfield—Gymnasium—Trustees St. Olaf College plan. About $75,000. E. Mohn, archt., 2012 Laurel Ave., St. Paul, prepared plans.

Minn., Ogilvie—School—City plans, brick and stone. About $50,000. A. H. Foss, archt., Elbow Lake, preparing plans.

Minn., Owatonna—High School—Bd. Educ., plans, 4-story in Dist. 1, about $150,000. O. H. Round & N. Jacobson, archts., 200 Oppenheim Bldg., St. Louis, prepared plans.

Minn., Rochester—Hotel—Until about May 1 by W. H. Conley, archt., 6-story, 54 x 140-ft. for Franklin Hotel Co., Inc. About $150,000.

Minn., St. Paul—Store and Office—Capital City Lumber Co., 511 East 7th St., plans, brick on Selby St. About $50,000.

Minn., St. Paul—(Official)—Church—St. Marks Congregation lets contract in about 6 months, Dayton and Moore Ave. Cost, $100,000. C. H. Chicago, archts.

Minn., White Bear Lake—City voted $[illegible] bonds to build schools.

Kan., Abilene—High School—Bd. Educ. plans, 3-story, brick, stone and concrete. About $[illegible],000. W. H. Sayler, 606 Gumbel Bldg., Kansas City, Mo., archt.

Kan., Ellsworth—School—Bd. Educ. rejected bids, 2-story, 101 x 133-ft. About $50,000. H. B. Winter, Union National Bank Bldg., Manhattan, archt.

Kan., Eureka—School—City voted $[illegible],000 bonds to build school.

Kan., Hutchison—School—City plans election to vote on $128,000 bonds to build school.

Kan., McPherson—School—Bd. Educ. plans, 3-story, 72 x 130-ft. About $50,000. Markgraf & Mampe, archts., 413 Ridge Bldg., Kansas City, Mo., prepared plans.

Kan., Parsons—City Hall and Auditorium City voted $150,000 bonds to build city hall and auditorium.

Neb., Ashland—School—Bd. Educ. plans, 2-story, brick and stone. About $65,000. Berlinghoff & Davis, 416 Security Mutual Life Bldg., Lincoln, archt.

Neb., Grand Island—Hotel—North America Hotel Co. plans, 11-story, 88 x 88-ft., brick and terra cotta. About $250,000. Bankers Realty Investment Co., Bee Bldg., Omaha, archt.

Neb., Hastings—School—Bd. Educ. plans, 1-story. About $75,000. R. A. Bradley & Co., archts., prepared plans.

Neb., Kearney—Hotel—North America Hotel Co. plans, 6-story, 75 x 90-ft. rein.-con. and terra cotta. About $150,000. Bankers Realty Investment Co., Bee Bldg., Omaha, archt.

S. D., Aberdeen—Dormitory—Northern Normal School, plans. About $125,000. H. F. Ellerbe, Endicott Bldg., St. Paul, Minn., archt.

S. D., Redfield—School—Bd. Educ. plans, 2-story. About $85,000. Z. A. Crane, pres. W. B. Ittner, archt., 911 Locust St., St. Louis, prepared plans.

S. D., Wessington—Court House—Co. Comrs. plan election to vote on $90,000 bonds to build court house. F. E. Pool, aud.

N. D., Drake—Schools—Bd. Educ. having plans prepared by W. D. Gillespie, archt., 64½ Broadway, Fargo, for 2 schools, brick and concrete. About $50,000.

N. D., Larimore—(Official)—School—Bd. Educ. School Dist. No. 44, rejected bids opened Mar. 29. W. J. Edwards, archt.

N. D., Minot—Hotel—J. W. Schofield and associates rejected bids, 7-story, 110 x 180-ft. About $250,000. M. Tuligren, Manhattan Bldg., Milwaukee, archt.

Wyo., Casper—Jail—City election May 7 to vote on $55,000 bonds to build jail.

Mont., Bozeman—School—City voted $90,000 bonds to build schools. Noted Apr. 5

Mo., Fulton—Chapel, etc.—Westminster College plans chapel to cost $55,000, and gymnasium, $65,000. Holmes & Flinn, 8 South Dearborn St., Chicago, archts.

Mo., St. Louis—Theater and Store— F. Demko, 2227 South Bway., plans, 2-story, 74 x 120-ft. About $50,000. Kennerly & Stiegemeyer, archts., 505 Bendist Bldg. soon receives bids.

—Until about May 15 by W. Wedemeyer, archt., 824 Wainwright Bldg., 4-story, 100 x 160-ft. building for Y. M. C. A., North Side Branch. About $200,000. L. Boeger, 3500 North Grand Ave., pres.

Mo., University—(St. Louis P. O.)—Church—Delmar Ave. Baptist Congregation plans, 1-story. About $50,000. A. B. Groves, archt., Stock Exchange Bldg., St. Louis, soon receives bids.

Tex., Dallas—School—City voted $500,000 bonds to build school.

Tex., Denton—Church—First Baptist Congregation plans. About $75,000.

Okla., Enid—High School—Bd. Educ. plans election to vote on $50,000 bonds to build addition to high school.

Okla., Guymon—High School—Bd. Educ. Guymon School Dist. voted $57,000 bonds to build high school.

Okla., Norman—Hospital—Bd. Pub. Affairs plans. About $85,000. A. N. Leecraft, Oklahoma, secy.

—School—City election May 2 to vote on $300,000 bonds to build schools.

Okla., Stillwater—Science Hall Armory and Gymnasium—State Bd. Agriculture plans at state college. About $200,000. F. C. Biggin, c/o college, archt.

Buildings (Continued)

Okla., **Tulsa**—Office—J. Mayo plans, 5-story, 100 x 140-ft. brick, stone and concrete addition. About $300,000. D. Eichenfeld, 420 First Natl. Bank Bldg., archt.

Okla., **Tulsa**—Hospital—Sisters of Sorrowful Mother, c/o Mother Superior Mary Cornelia Wichita, Kan., plans addition, 4- or 6-story. About $500,000. Wight & Wight, 401 1st Natl. Bank Bldg., Kansas City, Mo., archts.

Colo., **Pueblo**—High School—School Dist. No. 2 plans election in May to vote on $50,000 bonds to build central high school.

Colo. **Trinidad**—School—Local School Dist. No. 1 plans election to vote on $100,000 bonds to build school. F. Jones, secy.

Idaho, **Richfield**—School—City retained Fayland & Fennell, archts., Idaho Bldg., Boise, to prepare plans school.

Ariz., **Phœnix**—Church—Christian Congregation plans. About $55,000.

Wash., **Centralia**—School—School Bd. plans new building to replace Edison School. About $50,000.

Wash., **Seattle**—Bd. Regents University of Washington plans new building for department of philosophy. Cost, $180,000. Bebb & Gould, Denny Bldg., archts.

Wash., **Spokane**—Lodge—B. P. O. E. retained Houghtaling & Dougan, archts., Henry Bldg., Portland, to prepare plans, 4-story, 75x110-ft. brick and terra cotta. About $155,000 or $200,000. Will receive bids in May.

Cal., **Clovis**—High School—City defeated $60,000 bonds to build high school.

Cal., **Coalinga** — School — Coalinga Union School Dist. will vote May 5 on $100,000 bonds to build school.

Bids Desired

N. Y., **Jamestown**—(Official)—Bank—Until May 2 by W. J. Maddox, chn. bldg. com., Bank of Jamestown, 6-story, 20 x 120-ft. granite or limestone. Noted Apr. 12.

N. Y., **Rochester**—(Official)—Until May 1 by E. S. Elwood, secy., State Hospital Comn., Capitol, Albany, for addition to Livingston Bldg., Rochester State Hospital; advertised in this issue.

N. J., **Asbury Park**—Natatorium—Until May 14 by Bd. Comrs., natatorium on beach front. About $125,000. E. A. Arend, archt., Kinmouth Bldg., prepared plans.

Fla., **Miami**—Hotel—Until May 1 by C. J. Martin, 50 x 140-ft. concrete and tile, 12th and G St. About $300,000. G. L. Pfeiffer, Miami, archt.

Tenn., **Ducktown**—School—Until May 3 by R. L. Kirkpatrick, chn. bldg. com., 2-story, 60 x 90-ft. W. H. Sears, James Bldg., Chattanooga, archt.

O., **Columbus**—Hospital—Until May 16 by County for tuberculosis hospital. W. H. Tremaine, 602 Chamber of Commerce Bldg., archt.

O., **Galion**—High School—Until May 11 by Bd. Educ., 2-story. About $120,000. Howard & Merriam, 8 East Broad St., Columbus, archts. Noted Apr. 12.

Ill., **Urbana**—University—(Official)—Until May 30 by J. M. White, Engineering Bldg., superv. archt., 2 bldgs. at University of Illinois; advertised in this issue.

Ont., **Hamilton**—Office—Until May 1 by Canadian Westinghouse Co. About $200,000. Prack & Perrine, Lumsden Bldg., Toronto, archts.

Prices and Contracts Awarded

(★Indicates award of contract)

★Me., **Rumford**—High School—Town let contract 2-story addition to F. F. Howard, $60,000.

★N. H., **Brentwood**—Administration and Home—Rockingham Co. Farm let contract, brick, to C. E. Currier Co., 10 High St., Boston, $53,267.

★Mass., **Boston**—Hotel—Myles Standish Realty Co., c/o W. J. McDonald, 95 Milk St., let contract to Evatt Constr. Co., 161 Devonshire St., Boston, $4,500,000.

★Mass., **Springfield**—Bank—Chapin Natl. Bank let contract, brick and concrete, to F. T. Ley Co., 199 Main St. About $125,000.

★Mass., **Taunton**—High School—Town let contract addition to C. S. Cunningham & Sons Constr. Co., 7 Water St., Boston, $220,000.

★N. Y., **Brooklyn**—Station—New York Municipal Ry. Corp., 85 Clinton St., let contract to W. Flanigan, 118 East 28th St. About $59,990.

★N. Y., **Cortland**—Bank and Office—Cortland Savings Bank let contract, 4-story, to G. B. Wills, 101 Park Ave., New York City. Noted Apr. 12.

★N. Y., **Lake Placid**—Hotel—Adirondack Resort Corp., c/o G. F. Scott, 25 Broad St., New York, let contract, to be leased to J. McBowman, Hotel Biltmore, Madison Ave. and 43rd St., to Wells Bros., 33 West 42nd St., New York, $500,000.

★Pa., **Chester**—City Hall and Police Station—City let contract to J. H. Wells, Heed Blk., $69,463.

★Pa., **Swarthmore**—Dormitory—Mary Lyons School let contract, 3-story, to Flounders Bros., Media, $75,000.

★Pa., **Turtle Creek**—High School—Bd. Educ. let contract, 2-story, to Dawson Constr. Co., May Bldg., Pittsburgh, $171,900.

Pa., **Upper Darby**—High School—Bd. Educ. received low bid, 2-story, 110 x 200-ft., from Standard Constr. Co., Drexel Bldg., Phila., $149,568.

W. Va., **Wheeling**—Dormitory—State Bd. Control received low bid, West Liberty State Normal School, from Prescott Constr. Co., Parkersburg, $61,645.

★W. Va., **Wheeling**—Theater, Store and Office—T. Kopenes, 14th and Market St., let contract, 2-story, 64 x 130-ft. to A. B. Imhoff, $65,000.

★Ga., **Macon**—(Official)—Home—Masons of Georgia let contract to W. J. Beland, Macon. About $50,000.

★—**Temple**—Masonic Lodge let contract to Carmichael Constr. Co., 524 Hamilton Bldg., $366,000.

★—Commercial—Glengariff Realty Co., let contract, 67 x 200-ft. at 46th and Euclid St., to Masters & Mullen Constr. Co., 601 Electric Bldg. About $100,000.

★O., **Lima**—High School—Bd. Educ. let contract, 3-story, to F. E. Wood, $400,000.

★O., **Wooster**—School—Bd. Educ. let contract, 2-story, 60 x 90-ft., to Long & Bogner, Wooster, $60,000.

★Ind., **Bourbon**—(Official)—School—Bd. Educ. let contract to S. Parcel, Rochester, $50,000.

★Wis., **Oshkosh**—School—Bd. Educ. let contract addition to Punhoqua School to Ganther & Kroyer, Oshkosh, $41,995.

★Neb., **York**—Hotel—York Hotel Co. let contract 6-story, 90 x 120-ft. to R. Butke, 520 Paxton Blk., Omaha, $118,000.

★Mont., **Butte**—School—School Bd. let contract Lake Avoca School and new school south of Emerson Bldg. to H. Johnson, Butte, $74,000.

★Mont., **Malta**—Business Block—Varney & Wilson let contract to C. H. Johnson, Great Falls, $50,000.

★Mo., **Bowling Green**—(Official)—Court House—City let contract to McCarthy Constr. Co., Navarre Bldg., St. Louis, $88,290.

★Tex., **Lubbock**—Hospital—Ponton Sanitarium Co. let contract to Bramblett & Webster, Lubbock, $65,000.

★—Office—J. S. Cosden, Daniel Bldg. let contract, 15-story, terra cotta and rein.-con. to Fuller Constr. Co., 418 Dwight Bldg., Kansas City, Mo., $175,000.

FEDERAL GOVERNMENT WORK

Proposed Work

Crane Track Extension, Etc.—N. H., Portsmouth—Bureau Yards and Docks (F. A. Harris, ch.), Navy Dept., Wash., appropriated $11,000 for crane-track extensions, $18,000 extending distributing system and $105,000 to improve power plant at Navy Yard.

Drainage, Etc.—Mass., Boston—Bureau Yards and Docks (F. R. Harris, ch., Wash.), appropriated $17,500 for drainage improvements and filling arrangements at Dry Dock No. 2; $20,000 for locomotive and train shed; $150,000 to improve central power plant; $60,000 to extend chain shop at Navy Yard.

Depot—R. I., Melville—Bureau Yards and Docks (F. R. Harris, ch.), Navy Dept., Wash., appropriated $140,000 for depot for coal and other fuel.

Mine and Projectile House, Etc.—N. Y., Iona Island—Bureau Yards and Docks (F. R. Harris, ch.), Navy Dept., Wash., appropriated $50,000 for mine and projectile house and water-front improvements at Naval Magazine.

Power Plant Etc.—N. Y., New York—Bureau Yards and Docks (F. R. Harris, ch.), Navy Dept., Wash., appropriated $160,000 to improve power plant; $500,000 for storage facilities, and $400,000 to extend machine shop at Navy Yard.

Shell Houses, Etc.—N. J., Lake Denmark—(Wharton P. O.)—Bureau Yards and Docks (F. R. Harris, ch.), Navy Dept., Wash., plans 2 shell houses and magazine at Naval Magazine. About $100,000.

Barracks, Etc.—Pa., Phila.—Bureau Yards and Docks (F. R. Harris, ch.), Navy Dept., Wash., appropriated $200,000 for additional barracks and $80,000 for advance base storage at Marine Barracks.

—Power Plant, Etc.—Bureau Yards and Docks, Navy Dept., (F. R. Harris, ch.), Wash., appropriated $120,000 to improve central power plant and $100,000 for a 50-ton locomotive crane at Navy Yard.

Power Plant—Md., Annapolis—Bureau Yards and Docks (F. R. Harris, ch.), Navy Dept., Wash., appropriated about $2,270,000 to extend Bancroft Hall and $300,000 to improve power plant at Naval Academy.

Magazine, Etc.—Washington, D. C.—Bureau Yards and Docks (F. R. Harris, ch.), Navy Dept., plans magazine, shell houses and other buildings at St. Juliens Creek, Va. About $117,000.

Sight Shop, Etc.—Bureau Yards and Docks (F. R. Harris, ch.), Navy Dept., appropriated $40,000 to extend sight shop and $772,000 to improve central power plant and distributing system at Navy Yard.

Buildings—S. C., Charleston—Bureau Yards and Docks (F. R. Harris, ch.), Navy Dept., Wash., plans 2 buildings for ammunition storage, $70,000, also building for torpedo storage, $50,000, at Naval Magazine.

Superstructure, Etc.—Bureau Yards and Docks (F. R. Harris, ch.), Navy Dept., Wash., appropriated $500,000 for superstructure for pier No. 314, $130,000 to improve power plant and $50,000 for storage facilities at Navy Yard.

Power Plant, Etc.—Fla., Pensacola—Bureau Yards and Docks (F. R. Harris, ch.), Navy Dept., Wash., appropriated $50,000 to improve power plant, $40,000 for water system and $125,000 for 2 magazines and 1 building for torpedo storage at Naval Aeronautical Station.

Extension of Wharf—La., New Orleans—Bureau Yards and Docks (F. R. Harris, ch.), Navy Dept., Wash., appropriated $30,000, at Naval Station.

Water System Etc.—Wash., Bremerton—Bureau Yards and Docks (F. R. Harris, ch.), Navy Dept., Wash., plans extending water system and erecting several small buildings at Naval Magazine, Puget Sound.

Depot—Bureau Yards and Docks (F. R. Harris, ch.), Navy Dept., Wash., appropriated $300,000 for depot for coal and other fuel.

Power Plant, Etc.—Bureau Yards and Docks (F. R. Harris, ch.), Navy Dept., Wash., appropriated $150,000 to improve power plant and $500,000 for storage facilities at Navy Yard, Puget Sound.

Depot—Cal., San Diego—Bureau Yards and Docks (F. R. Harris, ch.), Navy Dept., Wash., appropriated $150,000 for depot for coal and other fuel.

Marine Corps Base—Bureau Yards and Docks (F. R. Harris, ch.), Navy Dept., Wash., appropriated $600,000 toward establishment, at Marine Barracks.

Power Plant, Etc.—Cal., Vallejo—Bureau Yards and Docks (F. R. Harris, ch.), Navy Dept., Wash., appropriated $105,000 to improve power plant and $50,000 for maintenance of dykes and dredging at Navy Yard, Mare Island.

Depots—Hawaii, Pearl Harbor—Bureau Yards and Docks (F. R. Harris, ch.), Navy Dept., Wash., appropriated $200,000 for depot for coal and other fuel.

Dry Dock, Etc.—Bureau Yards and Docks (F. R. Harris, ch.), Navy Dept., Wash., appropriated $936,500 for completion of dry dock and $100,000 for storehouse at Naval Station.

Marine Barracks and Laundry—China, Peking—Bureau Yards and Docks (F. R. Harris, ch.), Navy Dept., Wash., plans at American Legation. About $62,000.

Bids Desired

Coast Guard Station—N. H., Portsmouth—Until May 9 by Navy Dept., Wash., at Station No. 1, Quoddy Head, Me.; advertised in this issue.

Post Office—Mass., Southbridge—Until May 29 by J. A. Wetmore, superv. archt., Treasury Dept., Wash.; advertised in this issue.

Wharf Extension—N. Y., Ft. Michie (New London, Conn., P. O.)—Until May 30 by Constructing Quartermaster, at Ft. H. G. Wright, N. Y.; advertised in this issue.

Dredging—N. Y., New York—Until Apr. 28 by U. S. Engr. Office, Room 802 Army Bldg., 39 Whitehall St.; Shrewsbury River, Shoal Harbor and Compton Creek, Keyport Harbor, Raritan River and South River, N. J.; advertised in this issue.

Dredging—Until May 8 by U. S. Engr. Office, Room 802, Army Bldg., 39 Whitehall St., dredging and removal of rocks and boulders in Staten Island Sound, New York and New Jersey.

Post Office—Pa., Berwick—Until May 29 by J. A. Wetmore, superv. archt., Treasury Dept., Wash.; advertised in this issue.

Post Office—Pa., Indiana—Until May 24 by J. A. Wetmore, superv. archt., Treasury Dept., Wash.

Pumping Plant—Pa., Phila.—Until May 14 by Bureau Yards and Docks (F. R. Harris, ch.), Navy Dept. Wash., for use at dry docks at Phila. and Norfolk Navy Yards. Noted Apr. 12.

Dredging—Del., Wilmington—Until May 21 by U. S. Engr. Office, Wilmington, Maurice and Salem Rivers; advertised in this issue.

Dredging—Md., Baltimore—Until May 4 b U. S. Engr. Office, Baltimore, dredging Elk River advertised in this issue.

Federal Government Work (Continued)

Dredging—Until May 14 by U. S. Engr. Office, Baltimore, dredging in Claiborne Harbor and Tyaskin Creek; advertised in this issue.

Dredging—Until May 14 by U. S. Engr. Office, Baltimore, dredging Broad Creek River, Del.; advertised in this issue.

Sulphur Storehouse and Elevator House—Md., Indian Head—Until May 7 by Bureau Yards and Docks (F. R. Harris, ch.), Navy Dept., Wash., at Naval Proving Ground.

Bridge—Until May 7 by Bureau Yards and Docks (F. R. Harris, ch.), Navy Dept., Wash., foot bridge having channel span of bascule type and 2 trestle approaches across Mattawoman Creek at Naval Proving Ground.

Water Meters—Wash., D. C.—Until May 3 by Dist. Comrs., Room 509, Dist. Bldg., furnishing and delivering 3000 or more water meters. O. P. Newman, comr.

Grading—Until May 1 by Dist. Comrs., Room 509, Dist. Bldg., about 26,400 cu.yd. grading; advertised in Apr. 19 issue.

Sewers—Until May 19 by Dist. Comrs., Room 509, Dist. Bldg.; advertised in this issue.

Wharf—Va., Cape Henry—Until May 7 by U. S. Engr. Office, Norfolk; advertised in this issue.

Pumping Plant—Va., Norfolk—See "Pa., Phila."

Building—Fla., Key West—Until May 14 by Bureau Yards and Docks (F. R. Harris, ch.), Navy Dept., Wash., quarters for chief petty officer, distant control Naval Radio Station.

Hangars and Erecting Shop—Fla., Pensacola—Until May 7 by Bureau Yards and Docks (F. R. Harris, ch.), Navy Dept., Wash.; at Naval Aeronautical Station. Noted Apr. 12.

Post Office and Courthouse—Ala., Jasper—Until May 28 by J. A. Wetmore, superv. archt., Treasury Dept., Wash.; advertised in this issue.

Coal—Ala., Montgomery—Until May 23 by U. S. Engr. Office, Montgomery; advertised in this issue.

Storage Shed—La., New Orleans—Until May 14 by Bureau Yards and Docks (F. R. Harris, ch.) Navy Dept., Wash., at Naval Station.

Shore Connection—O., Cleveland—Until May 21 by U. S. Engr. Office, Cleveland, at East Pier, Lorain Harbor; advertised in this issue.

Post Office—O., Washington, C. H.—Until May 25 by J. A. Wetmore, superv. archt., Treasury Dept., Wash.

Sewage Disposal Plant—Ind., Ft. Benjamin Harrison—Until May 12, by Department Quartermaster, Federal Bldg., Chicago, addition; advertised in this issue.

Steel—Mich., Sault Ste. Marie—Until May 17 by U. S. Engr. Office, Detroit, furnishing and delivering about 38 tons steel and iron for pier construction, 4th Lock; advertised in this issue.

Dredging—Minn., Duluth—Until May 7 by U. S. Engr. Office, Duluth, Duluth-Superior Harbor, Minn. and Wis.; advertised in this issue.

Dikes—Mo., Kansas City—Until May 21 by U. S. Engr. Office, Kansas City, on Missouri River; advertised in this issue.

Canals—N. M., Garfield—Until May 23 by U. S. Rec. Ser., El Paso, Tex., canal on Rio Grande Project; advertised in this issue.

Heating, Etc.—N. M., Santa Fe—Until May 18 by J. A. Wetmore, superv. archt., Treasury Dept., Wash., heating, plumbing, conduit and wiring, lighting fixtures, etc., in courthouse.

Bridge—Ariz., Nogales—Until May 10 by J. A. Wetmore, superv. archt., Treasury Dept., Wash., bridge on customs reservation.

Buildings—Cal., San Pedro—Until May 9 at office of Constructing Quartermaster, 12th and Pacific Ave., officers' quarters, barracks and other buildings at Ft. MacArthur.

Mess Hall—Cal., Vallejo—Until May 21 by Bureau Yards and Docks (F. R. Harris, ch.), Navy Dept., Wash., 3-story extension at Mare Island.

Shell House and Laboratory—Until May 14 by Bureau Yards and Docks (F. R. Harris, ch.), Navy Dept., Wash., at Naval Ammunition Depot, Mare Island.

Prices and Contracts Awarded

(★Indicates award of contract)

Dredging—Mass., Boston—U. S. Engr. Office received low bids, Apr. 18, about 800,000 cu.yd. dredging in Weymouth Fore River, from Boston Dredging Co., 40 Central St., Boston; $0.299 cu.yd.; Bay State Dredging & Constr. Co., 247 Atlantic Ave., $0.305; Coastwise Dredging Co., 17 State St., New York, $0.324.

Post Office—N. J., East Orange—J. A. Wetmore, superv. archt., Treasury Dept., Wash., received low bids Apr. 18. (a) limestone, (b) sandstone, from W. H. Fissell, 1133 Broadway, New York, (a) $140,700, (b) $141,700; De Riso Bros., Inc., Weehawken, N. J., (a) $154,230.

Approaches—Wash., D. C.—W. W. Harts, Col. U. S. A., Executive Office, Comn. on Memorial to Women of Civil War, 1729 New York Ave., received low bids, Apr. 16, approaches to Memorial to Women of Civil War, from Conners Bros. Co., 64 West 84th St., New York, $54,950. Boyle-Robertson Constr. Co., Wash., $60,826, A. L. Smith Co., Wash., $97,143. Noted Apr. 5.

★**Paving—Dist. Comrs.** let contract grading and paving alleys to Washington Asphalt Block & Tile Co., 1419 G St., N. W., grading, 95c. per cu.yd.; paving on 4-in. base, $1.15 per sq.yd.; vitrified block on 4-in. base, $1.25 per sq.yd. Noted Apr. 19.

Structural Steel—E. Woods, supt. bldgs. and grounds, received low bids, Apr. 14, for use in reconstruction of courthouse: (a) furnishing and delivering, (b) reduction, from Barber & Ross, 11th and G St., N. W., (a) $23,000, (b) $112 per ton; American Bridge Co. of New York, 600 Continental Trust Bldg., Baltimore, (a) $24,400, (b) $118; Chesapeake Iron Works, Westport, Baltimore, (a) $25,865, (b) $130. Noted Apr. 5.

★**Cranes—Va., Norfolk**—Bureau Yards and Docks, Navy Dept., Wash., let contract furnishing locomotive jib cranes at Navy Yards, Norfolk and Phila., to Penn Bridge Co., Bond Bldg., Wash., $101,341. Noted Apr. 19.

Cement—W. Va., Wheeling—U. S. Engr. Office, Wheeling, received low bids, Apr. 9, Item 1, furnishing and delivering 40,000 bbls. American Portland cement for dams Nos. 21 and 22, Ohio River, Item 2, allowance for each sack returned, from Alpha Portland Cement Co., Easton, Pa., (1) $2.52 per bbl. discount of 5c. per bbl. for cash in 10 days from date of invoice; (2) 10c.; Atlas Portland Cement Co., 30 Broad St., New York, (1) $2.35 per bbl.; U. S. to prepay freight charges on empty cement sacks and return same within 90 days after purchase, (2) 10c.; Universal Portland Cement Co., Frick Bldg., Pittsburgh, (1), $2.25 per bbl.; not on bin tested, but guaranteed to conform to our specifications. Bin inspected cement will be furnished when it can be done without interference with prior obligations at rate of $2.28 per bbl.; (2) 10c. Noted Apr. 5.

Lockkeepers Houses—U. S. Engr. Office, Wheeling, received low bids, two 2-story, 14-room houses at each of dams Nos. 23, 25 and 27, Ohio River and one 2-story, 14-room double house at Dam No. 22, Ohio River, from E. N. Everson, Brilliant, O., and R. A. Miller, Middleport, O.

Dredging—Ga., Savannah—U. S. Engr. Office, Savannah, received bids, Apr. 14, dredging 21-ft. channel, Savannah Harbor from P. Sanford Ross, Inc., 277 Washington St., Jersey City, N. J., $165,040; Globe Dredging Co., Savannah Bank & Trust Bldg., Savannah, $171,600; Bowers Southern Dredging Co., Galveston, Tex., $172,400.

Stone Riprap—Mich., Harbor Beach—U. S. Engr. Office, Detroit, received bids furnishing and placing, along lake front of main and south breakwaters, from T. L. Durocher, Box 1000, Marquette, $156,590, and Great Lakes Dredge & Dock Co., Monroe Bldg., Chicago, $202,520. Noted Apr. 5.

Canal Work—Mont., St. Ignatius—U. S. Rec. Ser., St. Ignatius, received low bids Apr. 5 laterals on Flathead Project as follows: (a) Schedule 1, (b) Schedule 2, (c) Schedule 3, (d) Schedule 4, (e) Schedule 5, (f) Schedule 6, from J. A. Fletcher & Co., Seattle, (a) $22,745, (b) $23,892, (c) $15,455, (d) $12,245; Ball & Jaffe, Seattle, (a) $15,690, (b) $14,782, (c) $10,660, (d) $7065; Pearson Constr. Co., New York City Bldg., Seattle, (a) $19,815, (b) $23,582, (c) $15,815, (d) $10,555, (e) $9495, (f) $5452; F. Meers, St. Ignatius, (f) $4202; Higgins & Ross, Polson, (a) $17,225, (b) $19,717, (c) $13,177, (d) $8872; Mendenhall, Bird Co., Springfield, Utah, (a) $17,397, (b) $16,647, (c) $11,727, (d) $7610, (e) $6475, (f) $3652.

Post Office—N. M., Las Cruces—J. A. Wetmore, superv. archt., Treasury Dept., Wash., received bids, Apr. 20, limestone, from Latimer & Benning, Massachusetts Bldg., Kansas City, Mo., $88,743. W. D. Lovell, 415 8th St., S. E., Minneapolis, $90,600; W. O'Neill Sons Co., Faribault, Minn., $92,955; only bid on sandstone from E. Schuler, Pasadena, Cal., $108,745.

Buildings—Alaska, Seward—Bureau Yards and Docks, Navy Dept., Wash., received only bid radio and masts at naval radio station from Martin & Dugan Constr. Co., 627 Northern Bank Bldg., Seattle, $58,000. Noted Apr. 5.

MISCELLANEOUS

Proposed Work

Wharf—Mass., Malden—See "Industrial Works."

Subway—N. Y., Olean—Traffic Com. of Chamber of Commerce, submitted plan to city for subway on North Union St. at Pennsylvania R.R. crossing to improve traffic conditions. W. Abrams, secy. com. A. C. Shand, Broad St. Station, Phila., ch. engr. of R.R.

Piers—N. J., Jersey City—City plans series of piers on 250 acres property on Hudson River shore in Caven Point Dist. C. A. Van Keuren, city engr.

Playgrounds—N. J., Jersey City—Dept. Pub. Grounds and Bldgs. plans playgrounds at Bergen Ave., Henderson, 8th, Bright and Maxwell St., also improving Riverview Park. C. A. Van Keuren, city engr.

Park Improvements—Pa., Phila.—City plans improving park at 24th St., Passyunk Rd. and Snyder Ave.; also park at McKean Pkwy., Snyder Ave. and 24th St. G. S. Webster, engr. dept. pub. wks.

Playground—Pa., Phila.—City plans, Lombard, South, 9th and 10th St. G. S. Webster, engr. dept. pub. wks.

Station Platform—Pa., Phila.—See "Structural Steel."

Fire Alarm System—Fla., Orlando—City voted $10,000 bonds to install fire alarm system, $60,000 to build municipal building and $60,000 to pave streets.

Docks and Terminals—Ala., Mobile—W. Smith, city engr., prepared plans docks and terminals on city property, including bulkhead and pier, apron wharf and breakwater pier, retaining wall, dredging of 30-ft. channel and railroad tracks to connect with railroad system of city. About $503,470, excluding about $100,000 necessary for railway sheds and equipment.

Dock—Wis., Milwaukee—See "Reinforced Concrete."

Levee and Terminal Warehouse—Ia., Muscatine—City Council plans to spend $25,000 to build on river. C. H. Young, engr.

Park Improvements—Okla., Tulsa—See "Streets and Roads."

Tunnel—Cal., Los Angeles—(Official) Bd. Pub. Wks. rejected only bid received Mar. 26, Bunker Hill at 2nd St. from Hill to Figueroa St. and will probably readvertise. Noted Apr. 12.

Tunnel—Cal., Sierra City—Sierra Mining Co. plans 4000-ft. About $40,000.

Bids Desired

Retaining Walls—Conn., Bristol—See "Streets and Roads."

Ballast—N. Y., New York—Until May 9 by Pub. Ser. Com. for 1st Dist., 120 Broadway; supply of ballast for use in construction of rapid transit railroads. O. Straus, chn.

Garbage Incinerator—N. J., New Brunswick—(Official)—Until May 8 by Bd. Comrs.; advertised in this issue.

Foundations—Pa., Phila.—(Official)—Until May 1 by W. S. Twining, dir. dept. city transit, 754 Bourse Bldg., for 168 column foundations in Frankford Ave. from Unity St. to Dyre St. Frankford Elevated Ry., Contract No. 503.

Revetment Wall—O., Cincinnati—Until May 4 F. E. Wesselmann, pres. bd. co. comrs., on Clough Rd. No. 358, at State Rd. No. 381, Anderson Twp., specification No. 984.

Turbine and Generator—Ill., Lockport—(Official)—Until May 17 by J. McGillen, clk., Sanitary Dist. of Chicago; advertised in this issue.

Prices and Contracts Awarded

(★Indicates award of contract)

★**Shipways—Mass., Quincy**—See "Structural Steel."

★**Elimination of Grade Crossing—N. Y., Buffalo**—Grade Crossings Comn. let contract for Erie R.R. at Louisiana St., substructure to Eastern Concrete Steel Co., Morgan Bldg., $92,500.

N. Y., New York—(Official)—Station Finish—Pub. Ser. Comn. for 1st Dist., received low bids, Apr. 18, station finish on portion Park Pl., William and Clark St. Subway, from J. B. Roberts, 3 West 29th St., $139,919; Seventh Ave. Contr. Co., 335 West 16th St., $142,986; Snare & Treist Co., Woolworth Bldg., $145,860. Noted Apr. 5.

★**Pavilion, etc.—N. J., Ocean City**—(Official)—City let contract addition to music pavilion and boardwalk to Allen Scull, Ocean City, $18,744.

★**Culverts—N. D., Schafer**—(Official)—County let contract about 120 culverts to Northwestern Steel & Mach. Co., Wahpeton.

★**Retaining Wall—Mo., Kansas City**—See "Reinforced Concrete."

★**Fill—Ore., Portland**—Oregon-Washington R.R. & Navigation Co., Wells Fargo Bldg., let contract earthen fill, near Weston and Blue Mountain, on Pendleton-Walla Walla line, to Grant Smith & Co., Henry Bldg., Seattle, $110,000; 300,000 yd. fill, near Alto, on Walla Walla-Starbuck Line, to General Construction Co., North 1324 Elm St., Spokane, $80,000; fill at Rufus on main line along Columbia River to A. Guthrie & Co., Inc., Peninsula Tunnel, Portland, $25,000.

★**Pierhead—Ont., Toronto**—Toronto Harbor Comn. let contract covering 6000-ft. western portion of harbor, to R. Weddell & Co., Spadina Ave., Port Arthur Constr. Co. and J. O. Roddick. About $600,000.

The Quartermaster Dept., War Department, has prepared plans and specifications for the construction of cantonments to be located throughout the country to accommodate the new Natl Army when it is brought into being. The plans have been drawn for some time but the Department is taking no active steps at the present time for the reason that as yet no money has been appropriated and the sites for the proposed camps have not yet been selected. Preparations are being made however to accommodate 1,000,000 men. The buildings are to be of a one-story type, and in metal, concrete, or wood in accordance with local requirements and the degree of permanency of the camp. The estimated cost of construction of these cantonments is about $75,000,000, including hospitals, roads, sewers and water systems. Nothing has been done as yet towards securing bids for the work, but it is expected that bids will be asked on the basis of construction of each camp by one contractor rather than by several contractors furnishing material and supplies.